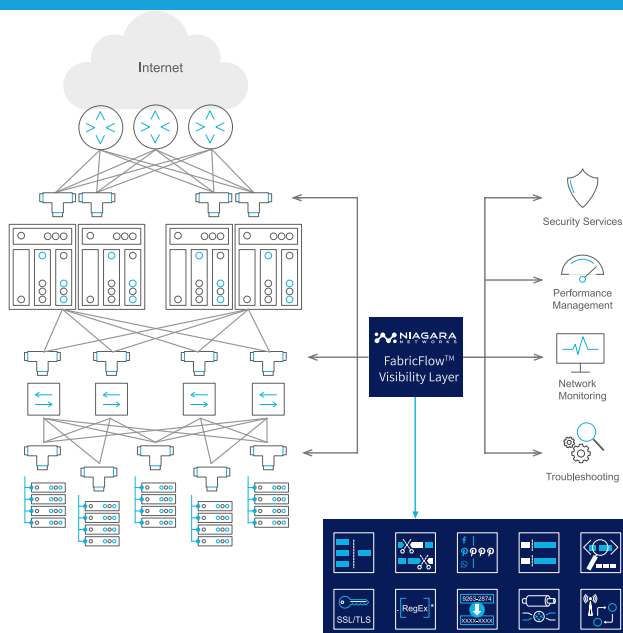# NIAGARA NETWORKS

Enabling NIST Cybersecurity Framework
For Continuous Monitoring

Financial entities are top targets for cyberattacks. They must adopt a cutting-edge security strategy and be prepared to use the latest technologies to combat evolving threats. In the new era of digital banking and low-latency transactional services, financial institutions must address security challenges without compromising network performance or reliability. Network visibility is essential for financial institutions that want to protect their customers' data and assets from cyberattacks. By providing NetSecOps teams with 360-degree visibility into their networks, network visibility can help financial institutions identify and respond to threats more quickly, prevent unauthorized access to sensitive data, and mitigate the impact of data breaches.

Niagara Networks is a Silicon Valley-based company with a proven track record of helping the world's largest financial institutions improve their security posture. Niagara Networks visibility solution is backed by a team of experts that partner with world-class technology leaders to provide high-performance network visibility and infrastructure security. Niagara Networks' visibility solutions are deployed in mission-critical financial markets worldwide. Our experience in complex projects has created superior value for our customers who deploy reliable, high-performance and flexible visibility solutions to maintain agile NetOps and SecOps operations to insure top cyber resilience and network resiliency. As a result, high-performance and cyber resilient financial services can innovate and scale to new offerings, maintain business continuity, and customer trust.

- 100% packet flow visibility for network traffic intelligence
- NetOps and SecOps tools' efficiency
- Deep visibility into encrypted traffic
- Efficient data traffic collection for forensics/SIEM
- Inline bypass for threat prevention tools

Solution Highlights

- Packet filtering & inspection for all layers up to L7 to enable network intelligence applications

- Aggregation/replication/optimization of traffic from virtual and physical netowkrs to central security and monitoring tools

- High-availability – carrier-grade bypass for in-line tools - maximizing network uptime

- Load Balance for heterogeneous solution tools 1:1, 1+1, n+1 with actionable agile rules

- Tunnel handling: GTP filtering, GRE, GENEVE termination, MPLS/VXLAN filtering and stripping

- Embedded 3rd party virtual security tools into Niagara Networks' Open Visibility Platform

- SSL/TLS Decryption for deep flow visibility

Visibility Solution Value Proposition

Network visibility is the ability to see and understand all traffic flowing through a network. This includes both internal and external traffic, as well as traffic between different segments of the physical and virtual networks. Network visibility is essential for infrastructure security because it allows organizations to:

1. Identify and respond to security threats more quickly

2. Prevent unauthorized access to sensitive data

3. Mitigate the impact of data breaches

4. Comply with regulations

Niagara Networks Visibility can help infrastructure security in a number of ways:

Enhancing Threat Detection and Response: Gain valuable insights into potential security risks and proactively respond with network visibility. By closely monitoring the network traffic, organizations can swiftly detect any suspicious activities, including unauthorized access attempts or malicious traffic. This invaluable information empowers immediate action to neutralize the threat, such as effectively blocking malicious traffic or swiftly isolating affected systems.

Protect your sensitive data with network visibility: By monitoring and blocking unauthorized access attempts, organizations can prevent data theft and misuse. Stay one step ahead and ensure the security of your valuable information.

Enhancing data security: Achieving network visibility enables organizations to effectively reduce the impact of data breaches. By closely monitoring all network traffic, organizations can promptly detect and mitigate data breaches, leading to a significant reduction in the amount of stolen data and minimizing the overall impact of the breach.
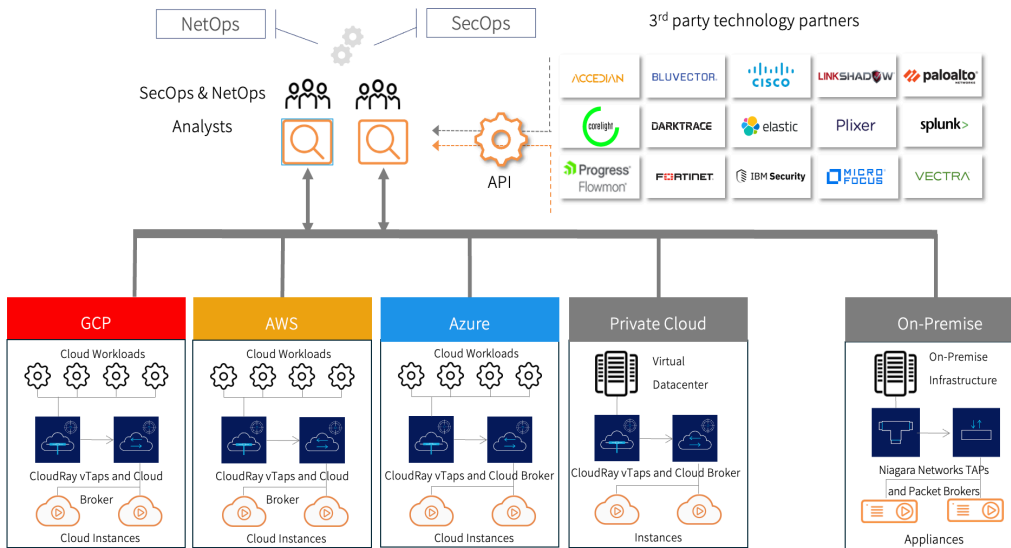
Ensuring Compliance with Regulations: In today's digital landscape, financial organizations are bound by numerous regulations, such as the General Data Protection Regulation (GDPR), PCI-DSS, EMV, which necessitate the implementation of robust security measures to safeguard personal and transnational process data. By harnessing network visibility, organizations can effortlessly showcase their adherence to these regulations, providing concrete proof of their ability to effectively monitor and control network traffic.

Conclusion

Infrastructure Security and continued network monitoring rely on uninterrupted delivery of network traffic to safeguard and monitor infrastructure. Traditional methods of delivering copies of network traffic to these solutions are not adequate in modern infrastructures and hybrid systems. With ever-growing bandwidth requirements and high volumes of data, older methods of spanning/mirroring create performance issues in the existing infrastructure, do not guarantee delivery of network traffic at all times, and become an operational nightmare during the implementation of network security or monitoring solutions.

Niagara Networks builds a visibility architecture that enables layered network security and monitoring in a seamless manner, provides agility and scalability for expansion to both netOps and SecOps, and reduces the time to implementation. It releases the offloads of the capture and aggregation function from the existing existing switching architecture and enhances overall performance.
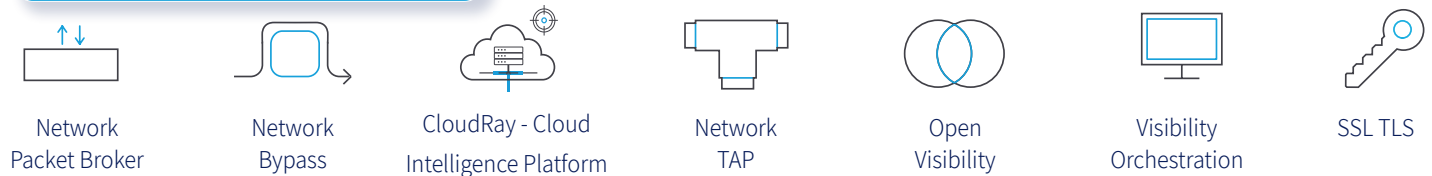
NIAGARA NETWORKS

Visibility Solution Positioned at Strategic Point of Any Network Infrastructure

NetOps · SecOps

3rd party technology partners

SecOps & NetOps Analysts

API

ACCEDIAN · BLUVECTOR · CISCO · LINKSHADOW · paloalto
corelight · DARKTRACE · elastic · Plixer · splunk>
Progress Flowmon · FORTINET · IBM Security · MICRO FOCUS · VECTRA

Streamline & scale networks, services and security posture

Save CAPEX reduce cost of tools and infrastructure optimization

Reduce risks by enabling visibility and access to 100% of traffic across any infrastructure and enable 100% of network/ tools **uptime**

GCP
Cloud Workloads
CloudRay vTaps and Cloud Broker
Cloud Instances

AWS
Cloud Workloads
CloudRay vTaps and Cloud Broker
Cloud Instances

Azure
Cloud Workloads
CloudRay vTaps and Cloud Broker
Cloud Instances

Private Cloud
Virtual Datacenter
CloudRay vTaps and Cloud Broker
Instances

On-Premise
On-Premise Infrastructure
Niagara Networks TAPs and Packet Brokers
Appliances

Niagara Networks is dedicated to enhancing infrastructure security through the use of physical and virtual TAPs and packet brokers. Our cutting-edge technology allows for a seamless flow of network traffic, ensuring uninterrupted network security. With our solutions, you can easily scale up to incorporate future security advancements by simply adding a plug-in. Additionally, our system off-loads resource-intensive processes from traditional infrastructure, resulting in increased IT efficiency and optimized performance.

Discover more @ niagaranetworks.com

Network Packet Broker · Network Bypass · CloudRay - Cloud Intelligence Platform · Network TAP · Open Visibility · Visibility Orchestration · SSL TLS

ABOUT NIAGARA NETWORKS

Niagara Networks™ is a Silicon Valley based company that pioneered the Open Visibility Platform™ to bring desperately needed agility to network security.

Niagara Networks provides high-performance, high-reliability network visibility and traffic delivery solutions for the world's most demanding service provider and enterprise environments.

We Design, Develop & Manufacture our Products in the Silicon Valley, USA.

Made in the USA
Premium Quality