

Network Visibility

You can't manage what you don't see

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Niagara Networks provides high performance Network Visibility Solutions

to allow seamless administration of Security solutions, performance management and network monitoring.

Our Product Portfolio Includes





Niagara Networks - Fast facts

Company

- Home grown products and solutions
- Global sales presence
- Three development centers
- Providing visibility solution to national provides
- Focused on SDN technologies and scalable distributed visibility platforms.

Solutions

• Best of breed scalable visibility solution coupled with SDN technologies.

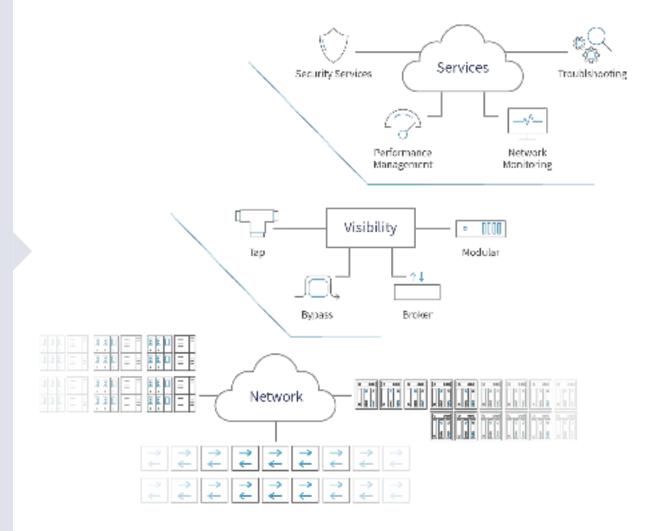






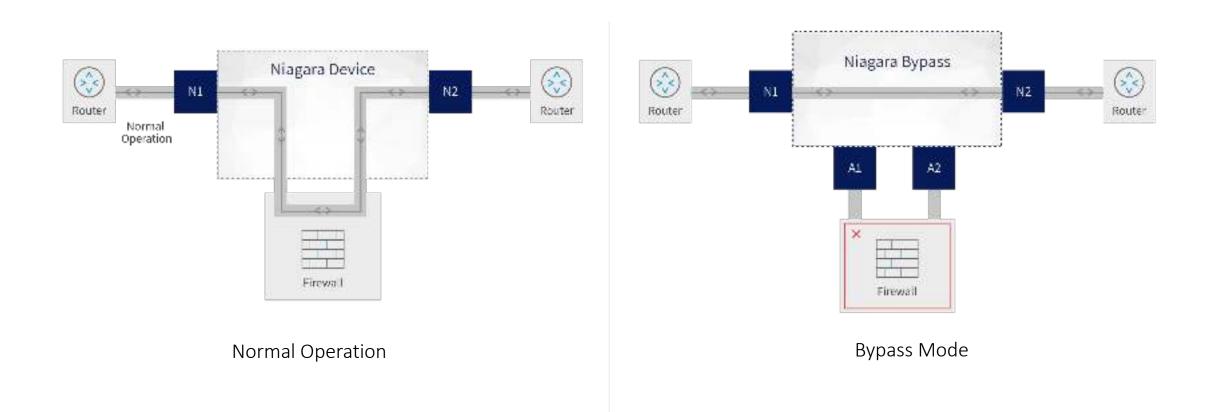
What is the Visibility Layer

- The visibility layer is a network that consists of resilient devices connecting security and monitoring devices.
- It allows sending specific traffic to desired destinations and set a course of action for connectivity or security device outages or attack scenarios.



Network Visibility for Network Security (1)

Preventing network failure in case of tool failure – by using bypasses

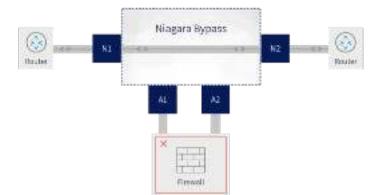


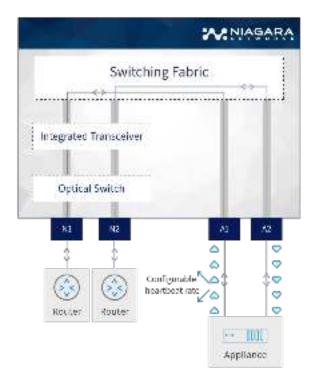


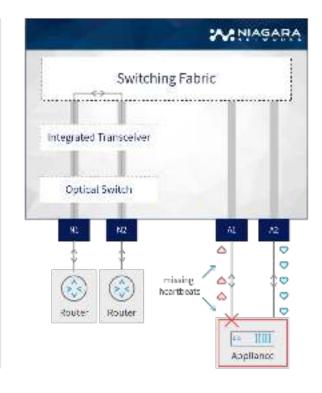
Active segment protection

Fast heartbeat triggered, ASIC based protection







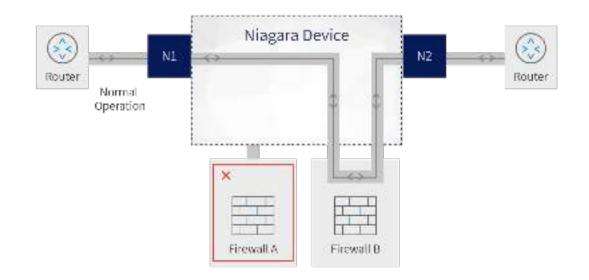




Network Visibility for Network Security (2)

Maintaining high availability of the security service (in case of tool failure) by implementing redundancy schemes.

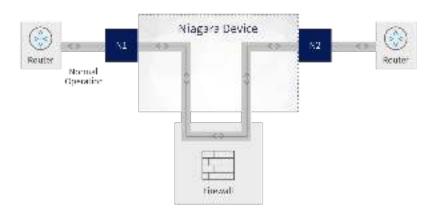




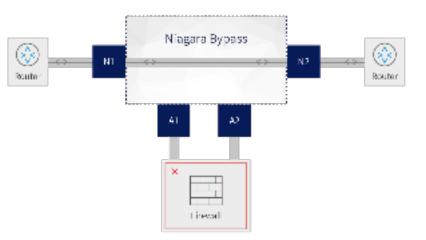


Passive segment protection

A power outage cannot break the segment



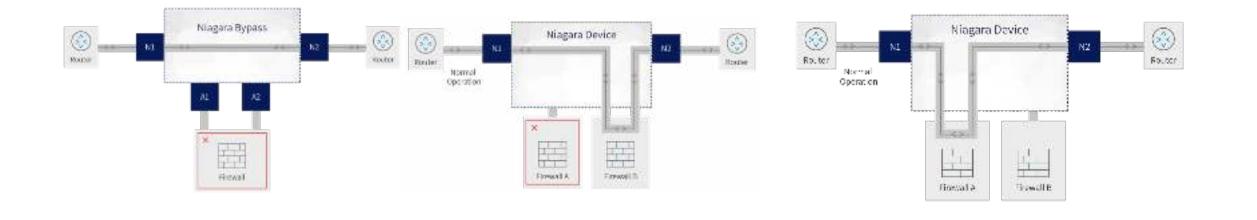


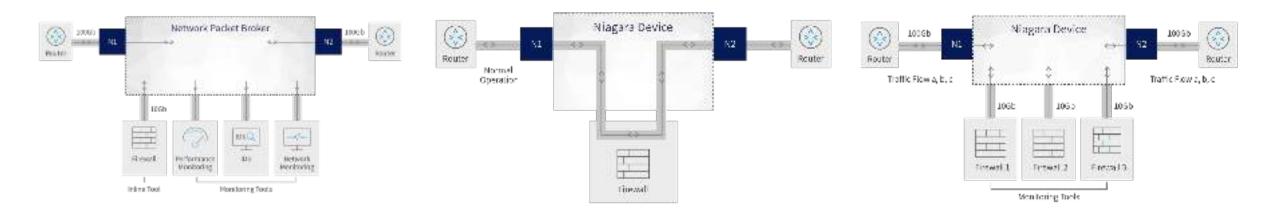




Network Visibility for Network Security (3)

Increasing security solution's efficiency

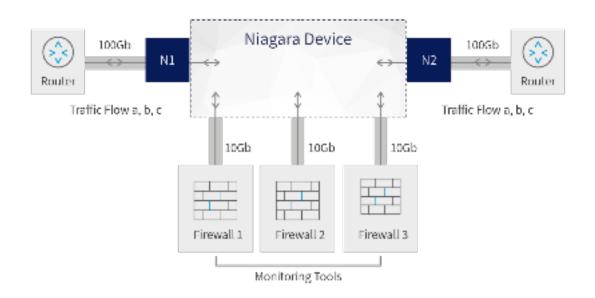




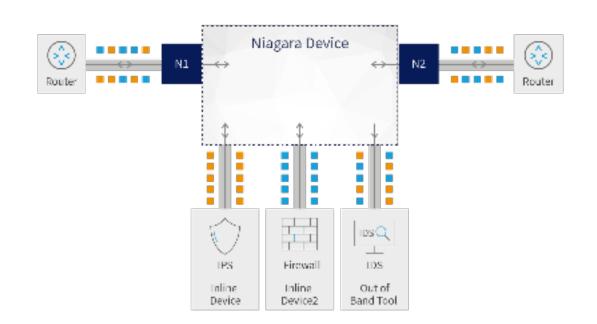


Network Visibility for Network Security (4)

Increasing security solution's efficiency



Load balancing between lower rate tools



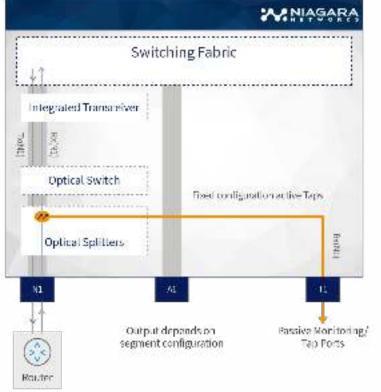
Distributing the right traffic to the right tool



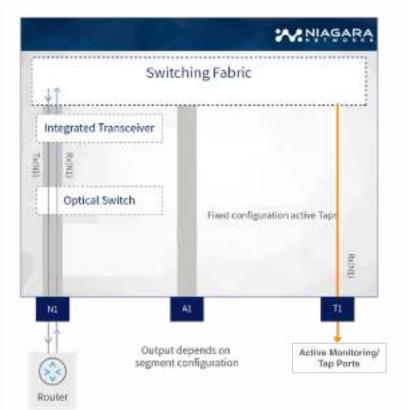
Protection with TAP

Passive tap and active tap with traffic grooming

Passive tap



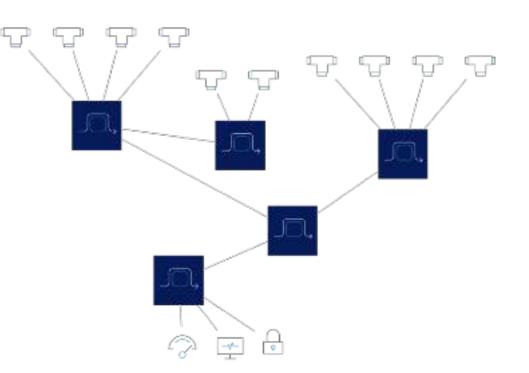
Active tap





Traffic grooming and central inspection

- Centralized traffic inspection
- Optimal deployment of inspection resources
- Location independent





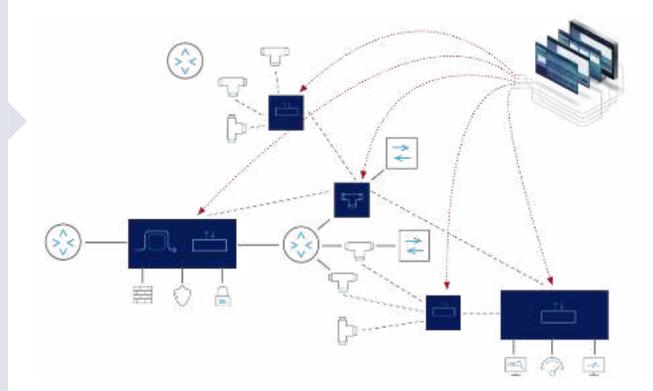
Visibility as a Service

Network Visibility Control



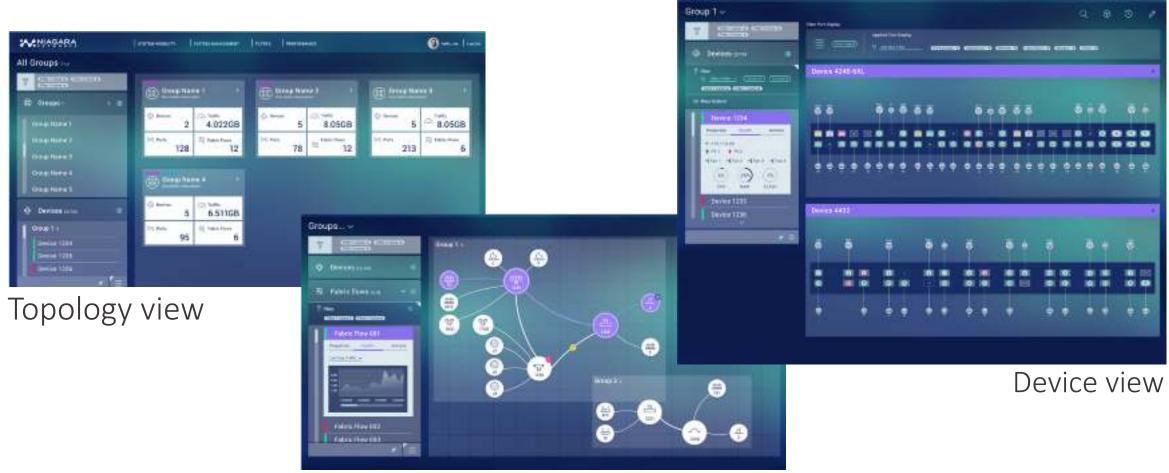
VAAS Visibility as a service

- NVC, easy configuration and provisioning of the visibility infrastructure.
 Connecting nodes as a single virtual switching fabric.
- Transparent multi-device visibility solutions without manual configuration of the separate connected devices





Layered Views for Full Situation Awareness



WINIAGARA

Contractioners Contractioners Contract Contractioners

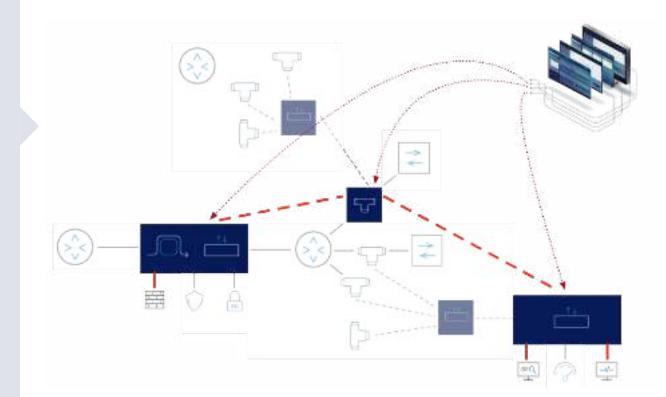
Group view



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Fabric Flow Intuitive high-level flow configuring

- User friendly, intuitive multidevice flow configuration
 - Aggregate, replicate traffic
 - Sophisticated filtering
 - Tunnel and vlan support
 - Ingress- and egress filtering
 - Flexible and multiple loadbalancing regimes
 - More...





On demand traffic inspection

- Connected Niagara nodes are handled as a seamless virtual switching fabric
- Select port of to be inspected traffic
- Select port of inspection tool
- Optionally:
 - Add extra destination ports in case of multiple inspection tools
 - Add extras like filtering, vlans, load balancing etc.
- Apply

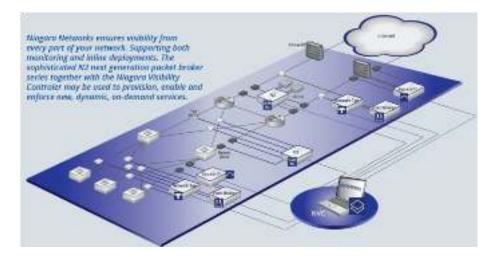




Device Management

Central management of Niagara Visibility nodes

- Device details
- Centralized configuration backup
- Centralized one-click software upgrade
- Role-based authentication and authorization
- SDN architecture
 - OpenFlow discovery and topology visualization
- Open REST API northbound interface







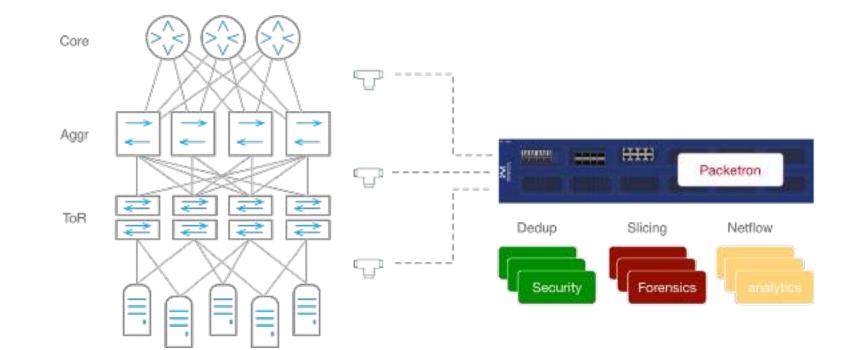
Open Environment

Network Visibility Controller



Packetron phase 1 – Integrated Packetron System

• Phase 1: Traditional services

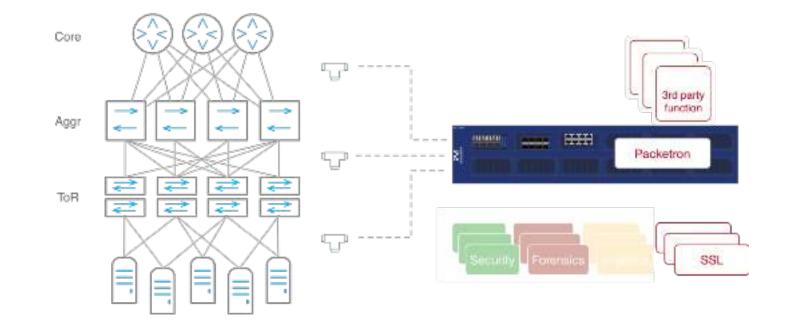




Packetron phase 2 – Integration

Advanced packet processing for technology partners

- enabling the Packetron as an SDN platform for security, forensic, analytics, application performance and monitoring
- enable partners to integrate their system on Niagara's open platform

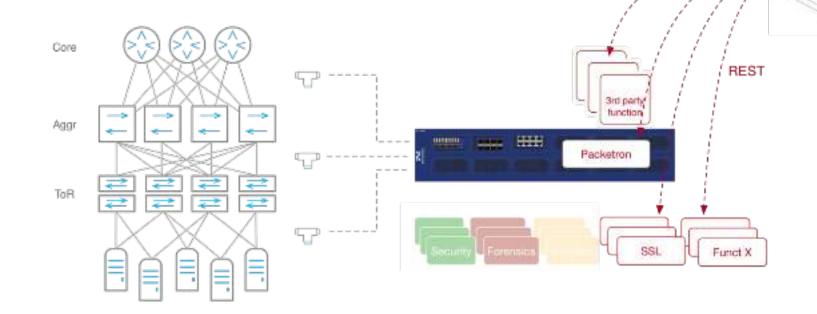




Packetron phase 3 – Intelligent Integrated System

Use NVC as a SDN controller for dynamic visibility control

• NVC as an elastic platform and SDN controller for security and visibility, enable partners to integrate their system on Niagara's open platform







Thank you

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