



## - QUANTEA & NIAGARA NETWORKS DELIVER SCALABLE HIGH-PERFORMANCE NETWORK MONITORING & VISIBILITY -

### High-performance network monitoring, recording and analysis solution with the Quantea QP and Niagara Modular Network Packet Broker

Niagara Networks, a leader in Network Visibility and Uptime Solutions, and Quantea, an emerging leader in Network Analysis and Monitoring, have partnered to provide a highly scalable traffic monitoring, full-packet recording and analysis solution that provides visibility across various network deployments and applications.

Maintaining searchable network traffic records has traditionally been a challenge due to cost, complexity and lack of analytics for inspecting terabytes to even petabytes of data. Together, Quantea and Niagara Networks offer a cost-effective and highly scalable, network monitoring and recording solution to address this challenge.

#### Challenges

Network recording has long been a part of (and is increasingly being used for) compliance mandates, network usage analytics, and network forensics. Enterprise-level organizations have begun maintaining network records (in the form of an industry standard PCAP format) for critical network links for various periods of time (24x7 in some cases). As network links and their speeds increase, the sheer amount of data being produced for maintaining network records has grown exponentially.

Enterprise and service provider IT businesses typically face the following range of challenges when deploying a comprehensive and robust network recording solution:

- Maintaining accurate records as the number of network links increase for expanding multi-tier, multi-domain enterprise networks
- Keeping up with increasing network speeds as peak aggregate network utilization approaches 100Gbps
- Supporting terabytes to petabytes capacity requirements for archiving network traffic data
- Centralized network recording for simplified data management
- Fast retrieval of data and report creation for large network data sets
- Robust network recording in the face of network outages
- Performing network analysis with large amounts of network traffic data





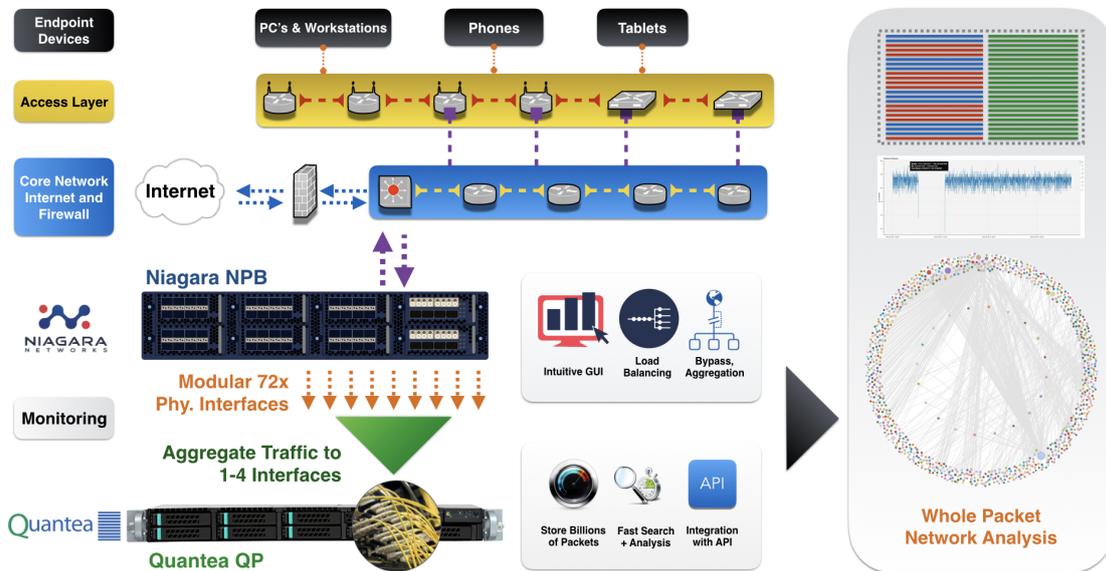
**Solution**

Together, Quantea and Niagara Networks provide a highly scalable solution to maintain network traffic monitoring, recording and analysis in complex, high-utility networks, with speeds aggregated up to 100Gbps and higher. In addition, the solution allows monitoring to multiple key areas of the network, in a scalable, cost-effective manner.

Niagara Network Packet Broker and Quantea QP simplifies large-scale monitoring and recording of network traffic and only requires using Niagara’s intuitive management GUI. The Niagara NPB ports (1Gb/10Gb SFP+) provide the ability to groom the traffic, load balance, aggregate, filter and/or mirror the network traffic to one or multiple Quantea QP network probes.

The integrated solution provides extensive network visibility tailored for enterprise and service provider environments that generate large amounts of network traffic and require a seamless way of retaining the traffic data for network forensics and auditing purposes. In addition, the joint Niagara NPB and Quantea QP solution set has been thoroughly tested to ensure that the integrated offering provides the highest level of quality and sustained performance.

**Application Diagram**



**Deployment Options**

The Quantea/Niagara Networks Solution can be passively deployed at any strategic network point including:

- Core/BackBone Network
- Site to Site
- Edge
- Distribution Layer
- Corporate Backhaul
- DataCenter/Central Office
- Access Layer
- Remote Location
- DMZ





## Solution Applications

Common applications of the joint Niagara Networks NPB and Quantea QP solution are as follows:

- Continual network monitoring and recording for ever-expanding multi-domain networks: The Niagara NPB provides the ability to link multiple interfaces, allowing visibility in various key areas of the network, without having to reconfigure the Quantea QP. For instance, the Niagara NPB can redirect traffic from multiple 1Gbps networks and direct the traffic to the Quantea QP by managing Niagara NPB's configuration with its intuitive configuration map GUI.
- Monitoring and recording the network peak utilization (including microbursts) without packet loss: Maintaining data integrity means 100% of desired data is recorded exactly as it occurs. The joint Niagara NPB and the Quantea QP solution has been thoroughly tested to work even under the most demanding networking environments. Both devices consist of telecom-grade hardware and robust software designed for non-stop 24x7 operation for years.
- Scale-out network monitoring solution: Multiple Quantea QP systems can be designated to ingest traffic from a group of ports within a single or multiple Niagara NPB devices, which permits monitoring, recording, and analyzing network traffic in the hundreds of Gigabits per second (Gbps) range. Network performance can be measured (including determining top-talkers ) in real-time.
- Retain a large set of highly searchable network traffic data: The Quantea QP is designed to handle hundreds of terabytes and petabytes of network traffic. Data retrieval can be done quickly through search by date and time, VLAN, IP addresses, ports, protocols, regular expressions within packet payload, top-used application, and by security and other forms of analysis.

## Solution Summary

Being able to monitor, record, and analyze large amounts of network traffic across the enterprise or service provider network typically requires multiple network analyzers placed separately in different networks. By connecting a Niagara Networks system to a Quantea QP appliance, different areas of the network can be easily aggregated and recorded. With Niagara's high port density, expanding coverage of network links to be monitored and recorded can be easily accommodated with all of the traffic seamlessly stored in the QP.

The Niagara Networks system can also mirror or bypass traffic in the event of a network failure, to ensure that the QP captures network traffic seamlessly without interruptions. The Quantea QP also acts as a Network Attached Storage (NAS) appliance, offering network administrators significant flexibility in connecting network capture infrastructure to a storage warehouse or content management platform to storing large amounts of PCAP records. The joint solution allows a flexible network recording platform, leveraging the power of Niagara's packet broker and Quantea's ability to store and process large amounts of PCAP data.



## About Quantea

Quantea allows organizations, from large to small, to have the capability to fully understand their network. Whether it is their network's macroscopic topology or nanoseconds worth of network traffic, the QP Series allows large amounts of data to be recorded while maintaining a wide level of granularity and PureInsight software allows network analysis not possible in any other network recording platform. Whether it is gaining insight on user or network anomalies, intrusion detection or prevention, and network or business intelligence, the data is rich with information and this is why it is our mission to empower businesses and organizations through their data – that begins with Quantea. For more information, visit [www.quantea.com](http://www.quantea.com)

## About Niagara Networks

Niagara Networks is a Network Visibility industry leader, with emphasis in 1/10/40/100 Gigabit systems including Network TAPs, Bypass Switches, and Network Packet Brokers that integrate with monitoring systems, inline networking appliances, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances. Formerly part of Interface Masters, a leading Silicon Valley network solutions company, Niagara Networks recently spun off from Interface Masters to focus on its core competencies, and developed an independent company identity.

Niagara Networks offers the highest port-density systems, the most complete Network Visibility Systems, and the highest quality and feature-rich Bypass Solutions in the market. Niagara's unique and modular designs, innovative Next-Generation Network Visibility technology, including the 100 Gigabit-capable Network Packet Broker, and the ability to tailor systems to exact customer specifications, allow it to lead the industry with high quality, innovative products and exceptional service. For more information, please go to: [www.niagaranetworks.com](http://www.niagaranetworks.com)



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