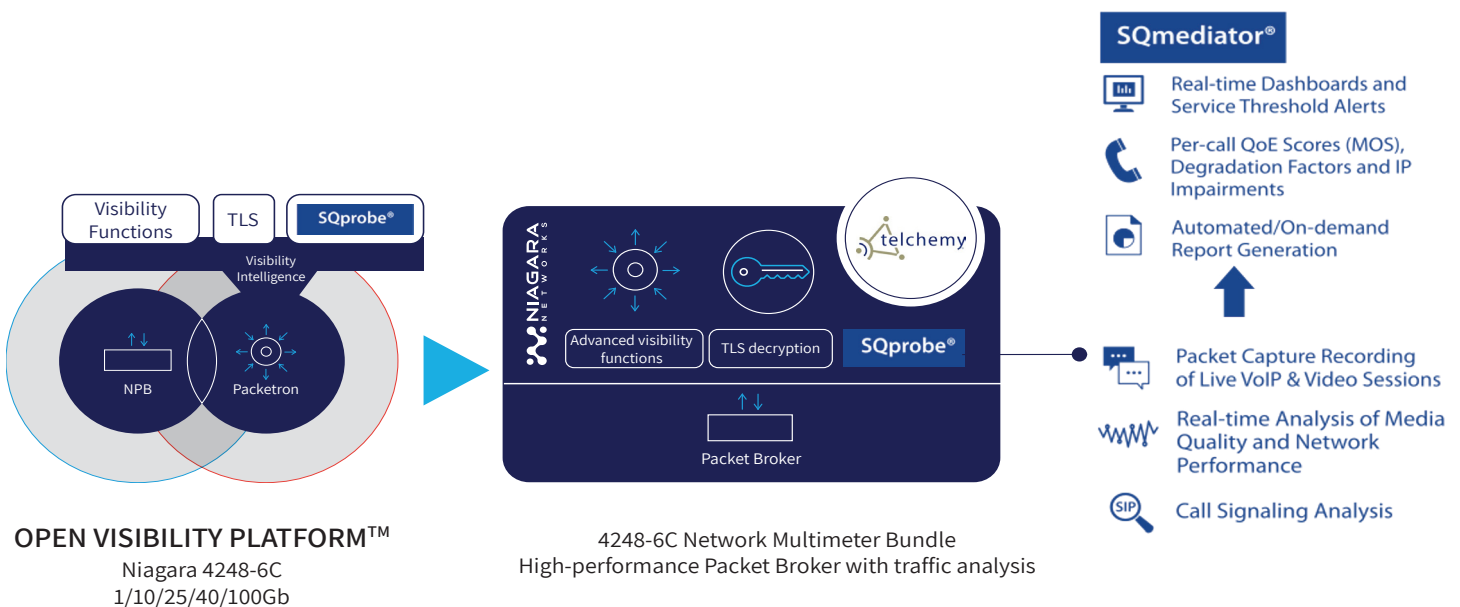**NIAGARA**
NETWORKS

telchemy

Solution Brief

Niagara Networks & Telchemy
Joint Solution Delivers End-to-End Monitoring,
Troubleshooting and Analytics for Voice over
IP and Videoconferencing

Introduction

Today's typical enterprise network is an amalgam of both Cloud and on-premises architectures. This complexity makes it even more difficult for IT administrators to effectively monitor and troubleshoot the performance of real-time applications such as videoconferencing and Voice over IP. Telchemy's SQprobe and SQmediator, together with Niagara's Open Visibility Platform, enable organizations to record live voice and video sessions anywhere in the network, analyze performance in real time, and proactively detect, diagnose,

as well as rectify impairment sources before they negatively impact service levels and end-user quality of experience.
Niagara's Open Visibility Platform (OVP) is the flexible deployment hub for cutting edge applications giving you the freedom to choose and spin-up the best solution for your SecOps and NetOps needs. Integrated intelligent switching fabric capabilities ensure that the solution gets the right traffic in the right way, further streamlining the process of deploying a new solution.

OPEN VISIBILITY PLATFORM™
Niagara 4248-6C
1/10/25/40/100Gb

4248-6C Network Multimeter Bundle
High-performance Packet Broker with traffic analysis

SQmediator®
- Real-time Dashboards and Service Threshold Alerts
- Per-call QoE Scores (MOS), Degradation Factors and IP Impairments
- Automated/On-demand Report Generation
- Packet Capture Recording of Live VoIP & Video Sessions
- Real-time Analysis of Media Quality and Network Performance
- Call Signaling Analysis

Challenges:

- Easily deploy a scalable, real-time performance monitoring solution for Voice & Video over IP & Videoconferencing that provides network-wide visibility into every conversation from a single web-based console.
- Deploying a new solution into the network requires a lot of time and presents many hurdles, such as where to deploy, getting the right traffic fed into the solution, form factor, application administration physical access and more.
- Videoconferencing and Voice over IP sessions are commonly encrypted for privacy and security. Encryption can negatively impact the ability of a monitoring solution to identify these conversations and analyze their performance.

Joint Solution Benefits

Niagara's Open Visibility Platform, provides Telchemy's SQprobe application that is hosted within the packet broker a real-time traffic feed to accelerate network as well as application analysis and troubleshooting. Combining both solutions delivers a highly granular real-time and historical analysis of network and application traffic on a single unified platform with the following benefitss:

Complete Network Visibility

Niagara OVP eliminates blind spots by aggregating traffic from anywhere in the network to SQprobe, so you won't miss a single conversation. SQmediator's intuitive dashboard interface delivers precise QoE scores, QoS metrics and root-cause diagnostics for every voice and video session, giving you 24x7 visibility to pinpoint and resolve performance bottlenecks before they become major problems.

The Right Traffic to the Right Solution

Niagara OVP sends only the necessary IP flows to SQprobe for guaranteed peak performance. Monitor your voice and video applications at carrier scale with minimal processing overhead.

Fully Integrated

Traditionally, monitoring a network meant installing an external appliance and facing the challenge and cost of connecting network interfaces to the solution. With the Niagara OVP and Telchemy joint solution, SQprobe is hosted inside the network packet broker. No costly external interfaces. No external appliance that needs to be separately maintained and upgraded.
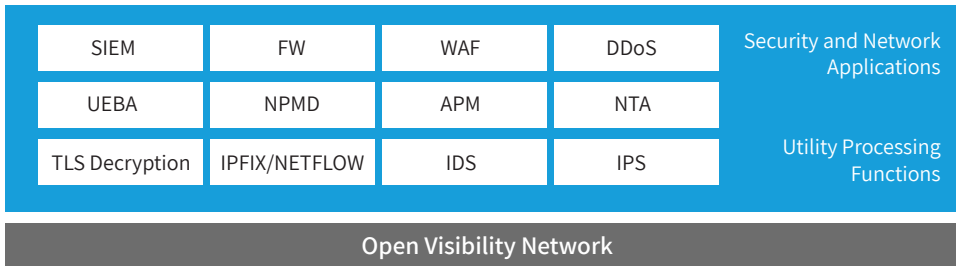
Packet Decryption

As an increasing amount of network traffic is encrypted, troubleshooting becomes harder. Niagara OVP can perform SSL/TLS decryption of traffic before it reaches SQprobe, ensuring accurate analysis of both signaling and media stream quality for voice and video sessions that are encrypted using SIP over TLS and/or Secure RTP.

Open Visibility Platform Value Proposition - The Road to Deployment Agility

- OVP provides an open, high performance unconstrained deployment hub for hosting virtualized solutions combined with intelligent network traffic delivery capabilities to unlimited security and networking solutions

- Address the NetOps⇔SecOps challenge - the ability to deploy a security or a networking solution in the network has been a long, complicated process – one of the least agile in the enterprise

- Freedom to choose - Not tied to closed garden offerings of a particular vendor

- Deployment Hub - Enables agility and flexibility by providing a deployment hub to easily host and serve multiple security and networking solutions. The deployment hub is a high performance/high-reliability appliance that meets stringent demands for the core networking reliability, scalability and performance required by networking teams

- Getting the Right Traffic, the Right Way - Intelligently deliver traffic and configure policies and rules to establish traffic flows to and from solutions. Determine the logical sequence of traffic being sent to the hosted applications as needed. Policies, actions and traffic steering can be triggered to address host application failure and failover conditions

Open Visibility Platform™ Deployment Hub

SIEM	FW	WAF	DDoS	Security and Network Applications
UEBA	NPMD	APM	NTA	
TLS Decryption	IPFIX/NETFLOW	IDS	IPS	Utility Processing Functions

Open Visibility Network

OVP Deployment Hub

About Telchemy®

Telchemy® is the global leader in analytics technology for real-time applications and multimedia IoT with its VQmon®, Embiot®, DVQattest®, SQprobe® and SQmediator® families of service quality monitoring and analysis products. Telchemy pioneered the use of embedded analytics technology and the application of big data for VoIP and Video performance management, and is positioned to be a leading provider of analytics technology for the emerging IoT market. Founded in 1999, the company has products deployed worldwide and markets its technology both directly and through many leading networking, test and management product companies. www.telchemy.com

About Niagara Networks

Niagara Networks provides high performance network visibility solutions for seamless administration of security solutions, performance management and network monitoring. Niagara Networks products provide advantages in terms of network operation expenses, downtime, and total cost of ownership. A former division of Interface Masters, Niagara Networks provides all the building blocks for an advanced Visibility Adaptation Layer at all data rates up to 100Gb, including TAPs, bypass elements, packet brokers and a unified management layer. Thanks to its integrated in-house capabilities and tailor-made development cycle, Niagara Networks are agile in responding to market trends and in meeting the customized needs of service providers, enterprise, data centers, and government agencies. For more information please visit us at www.niagaranetworks.com.