# – DB Networks & Niagara Networks provide actionable Network Visibility and Database Security Solution –

## Complete Database Infrastructure Monitoring to Prevent Data Breaches with DBN-6300

DB Networks, a leader in Database Security and Niagara Networks, a leader in Network Visibility and Uptime Solutions have partnered to ensure optimal network security by providing Database deep database protocol extraction and analysis, at strategic points in the network. The joint DB Networks and Niagara Networks solution offers a cost-effective way to deliver highly tuned network visibility, Database discovery and correlation, violation of database connectivity policies, and behavioral analysis to detect advanced security threats in real time. Together, DB Networks and Niagara Networks ensure a passive network security solution that delivers database integrity, and network uptime.

## Challenge

Databases within complex and decentralized organizations are fluid, interconnected and very difficult to manage. Users may have access to databases they shouldn't, and administrators and management may implement policy that leave organizations vulnerable to attack. Furthermore, users may knowingly or unknowingly violate policy put in place to safeguard valuable data. A proactive solution is required that intelligently influences and shapes sound security policy around the network of databases accessed daily by employees, management and administrators.
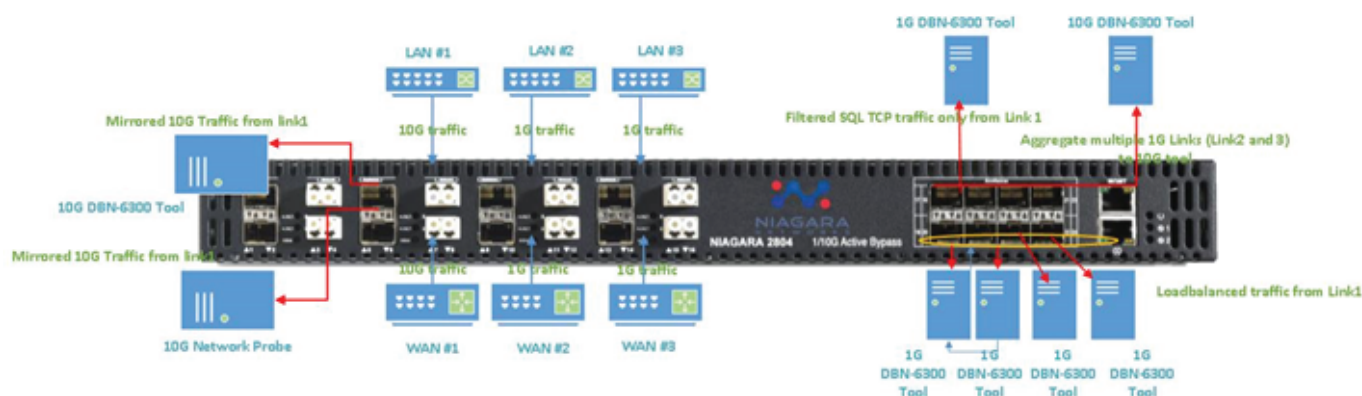
### Solution Benefit Summary

• Plug & Play, User friendly Web GUI/Management

• Scalable Enterprise Grade Visibility & Security Solution

• Ensures Comprehensive Network Access, Visibility and uptime

• Support for 10G & 1G Network TAP, Filtering, Mirroring, Aggregation, Load Balancingand Speed Conversion between Network Links & Monitoring/Security Tools

• Continuous Monitoring and Breach Detection

• Comprehensive Network Forensics

• Software based Sensors can be deployed on commodity hardware or in virtual environments

• Detection via Analytics, Signature, Behavioral and File Analysis

• Query and Visualize Network Traffic

• Network Analytics, Reporting and Alerting

• Cost-Effective Solution

## Solution

Together, DB Networks and Niagara Networks offer a scalable solution that provides network visibility at 1G and 10G to non-intrusively access database network traffic for identification of database attacks, traffic between restricted segments, rogue SQL statements, database infrastructure discovery and mapping, and core network activity analysis.

The Network TAP ports on the Niagara 2804 connect to each side of one or multiple bi-directional 1G or 10G network links and transparently pass network traffic while ensuring network uptime in case of any power failure, link loss or software crash via fail-to-wire protection. The Network Packet Broker ports (1G/10G flexible SFP+ ports) provide the ability to load balance, aggregate, filter and/or mirror the tapped Network traffic to one or multiple DBN-6300. DBN-6300 provides proactive, intelligent and practical network and database policy management capabilities. The integrated solution provides a seamless non-intrusive network monitoring and visibility solution tailored to safeguard enterprises, service providers, governments and institutions.

**Application Diagram – Niagara Networks Niagara 2804 and DB Networks DBN-6300 Security Appliance**

## Solution Applications

Common applications of the Niagara Networks Niagara 2804 and DBN-6300 solution are as follows:

・Niagara 2804 provides session based load balancing and network speed conversion that enables 10G Network links to be monitored by DBN-6300 10G or 1G Security/Monitoring tools. With the Niagara 2804 in place, an enterprise can simply connect 10G Network links into the Niagara 2804 and load balance the 10G feed to a series of 1G DBN-6300 appliances or several 10G DBN-6300 appliances, while maintaining session integrity.

・Niagara 2804 provides the ability to filter 10G traffic based on IP, MAC, Port, Protocol, VLAN ID or creating a user defined byte and then sending only traffic that is relevant to the DBN-6300 for processing. The DBN-6300 is able to then focus on the types of network traffic that poses a threat to the network and discard the rest.  As an example filtering SQL traffic (TCP Port 1433) and sending only that traffic via a Network Packet Broker port to a DBN-6300.

・Niagara 2804 provides the capability to accept either a 10G or 1G network feed and mirror that traffic to multiple DBN-6300 database sensors (or a DBN-6300 devices and various other brands of monitoring or security devices) to provide in depth or multi-layered analysis on the same critical network link.

・Niagara 2804 enables multiple 1G network links to be tapped and aggregated to a 10G DB Networks' appliance for analysis and monitoring across multiple critical network links,  such as tapping the marketing, accounting, engineering, and operations departments' 1G network links and collecting and aggregating the traffic via the Niagara 2804 and forwarding the traffic to a 10G DB Networks appliance.

## Deployment Options

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

| | | |
|---|---|---|
| ・Core/BackBone | ・Site to Site | ・Edge |
| ・Distribution | ・Corporate Backhaul | ・DataCenter/Central Office |
| ・Access | ・Remote Office | ・DMZ |

## Example
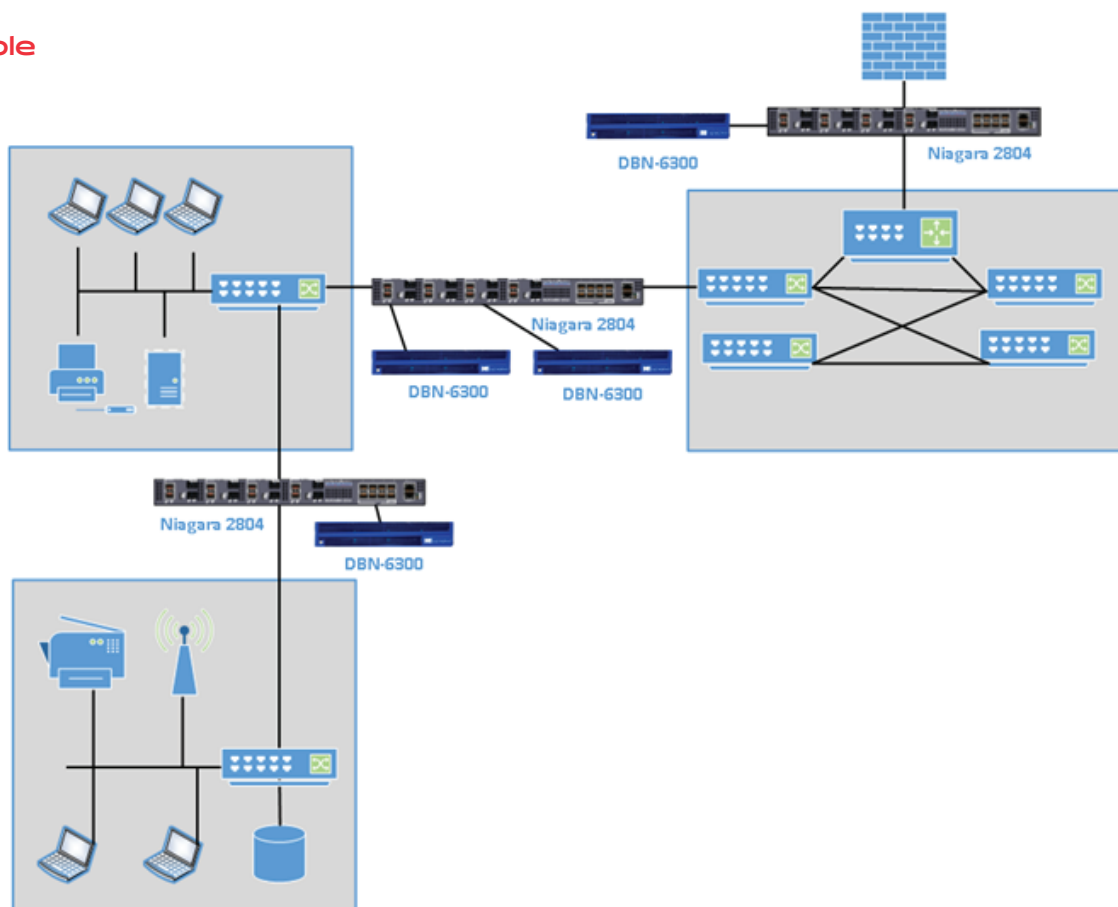


Example Network Topology Diagram

## About DB Networks

DB Networks innovates database cybersecurity products. Its customers include the world's largest financial institutions, health-care providers, manufacturers, and governments. DB Networks non-intrusively assesses database infrastructures through deep protocol extraction, machine learning, and behavioral analysis. Analyzing application database conversations that deviates from the model of normal application behavior immediately identifies database attacks. With no signature files to deal with or endless false positives to chase down, operational support becomes trivial. DB Networks is a privately held company headquartered in San Diego, Calif. For more information, call (800) 598-0450 or visit: www.dbnetworks.com

## About Niagara Networks

Niagara Networks is a Network Visibility industry leader, with emphasis in 1/10/40/100 Gigabit systems including Network TAPs, External 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 Silicon Valley based 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 hybrid 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 with hybrid functionality, 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

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