

# Limitless Tool Access to the Network

## VSS Monitoring Network Intelligence Optimization Architecture

### Pain Points

- Too many tools, not enough SPAN/ Mirror ports for access
- Need to monitor complete network traffic with no packet loss
- Can't afford to monitor all network segments - leads to blind spots
- Trying to monitor 10G traffic with 1G tools – don't want to rip & replace the 1G tools
- Tools over or undersubscribed, they are not being used at capacity which is not cost effective
- Arduous, time-consuming change order, configuration management processes

### Typical Customer Industries

- Financial Services
- Healthcare
- Federal Government
- Entertainment
- Service Providers
- Telecommunications
- Utilities
- Transportation
- Manufacturing
- Education
- Hospitality

### Business Challenges

Network complexity is escalating: data traffic is exploding, new and sophisticated threats are searching for weaknesses, and organizations are moving from 10M/100M/1G to 10G – and the move to 40G and on to 100G is coming fast.

With the advent of 10G speeds and beyond, you may have lost visibility into your networks. The higher speeds stress almost every device – network performance monitors, IPS appliances, IDS appliances, routers and switches among others. These appliances, routers, switches and firewalls that were bought over the last couple of years simply cannot keep up.

### VSS Monitoring Solutions

VSS solves the problems of visibility and access. VSS network intelligence optimization systems reside between network infrastructure and monitoring equipment where they can be deployed throughout the entire network to provide complete network data to all tools. An interconnected layer of VSS systems, purpose-built for network intelligence optimization, provides complete network coverage by collecting a copy of traffic at multiple points. Traffic of interest is sent to analytics, security, and WAN acceleration tools – in real time.

This total, real-time, packet-level visibility with centralized access is essential to proactive network management and scalability. Session-aware load balancing prevents the tools from being oversubscribed or undersubscribed.

VSS systems will show Network Operations every factor potentially affecting latency; help them achieve the proactive control essential to delivering on performance and throughput targets; and ensure compliance with regulatory mandates.

### VSS Helps Reduce CAPEX and OPEX

Companies are faced with deploying many very expensive tools throughout their networked infrastructure. Network and Security teams spend time attempting to justify the cost of the monitoring solution. The VSS network intelligence optimization system will aggregate hundreds of network connections and provide only the information needed to a reduced number of tools. The customer saves money and can show an immediate **“Day One ROI”**.

### Do you face any of these network issues?

- Does your current monitoring infrastructure provide visibility across your entire network?
- Is it cost prohibitive to connect tools to every network segment?
- Do your monitoring devices support 10G connections?
- Would it be useful to tap into multiple 1G and 10G links and aggregate the traffic to a specific tool or tools?
- Do you have enough SPAN ports for all your tools - monitoring, security, forensics, sniffing, etc.?
- Are your tools performing well and at capacity – not oversubscribed or undersubscribed?
- Can your tools receive the information at line rate?
- Can you easily diagnose packet delay caused by jitter?
- Are you able to ensure consistent network performance?
- Is your monitoring architecture 100% accurate and reliable?
- Can you easily test and deploy new monitoring tools on your network?

### Maximize Existing Investment by Monitoring 10G Links with 1G Tools

In environments that have upgraded to 10G networks, VSS network intelligence optimization systems make it possible to monitor the 10G connections using existing IDS, sniffer, packet analysis and data recorder tools that have 1G interfaces. VSS systems take a feed from 10G connections, at full line rate, and filter and load balance the traffic into easier to identify flows at much more manageable data rates for these 1G devices.

The VSS solution sends only the traffic of interest to tools, so they will not be saturated with unwanted traffic. This is important, since monitoring devices designed with 10Gbps interfaces often have issues meeting high-performance demand. VSS network intelligence optimization systems filter traffic to a manageable flow rate to ensure that monitoring devices are not overwhelmed by increased line rate.

### VSS Eliminates SPAN Port Contention

Built-in SPAN Ports offer a convenient place to access network traffic. Trouble is, there aren't enough of them! VSS systems eliminate SPAN/Mirror Port shortages. Multiple tools can be connected to VSS systems, which will send specified traffic from the SPAN/Mirror port to any or many tools simultaneously. Network analysis, security and troubleshooting devices can be added quickly, as needed, without having to remove other monitoring tools. There is no need to compromise network visibility or prioritize existing network tools.

### Network Security in Layers

VSS Protector Series™ hardware-based traffic filtering and redirection systems are designed to redirect active inline network traffic and intelligently forward only the traffic of interest to appropriate security and monitoring tools. VSS systems uniquely enable IT professionals to scale and optimize the visibility and efficiency of network security solutions while increasing the ROI from current and future investments.

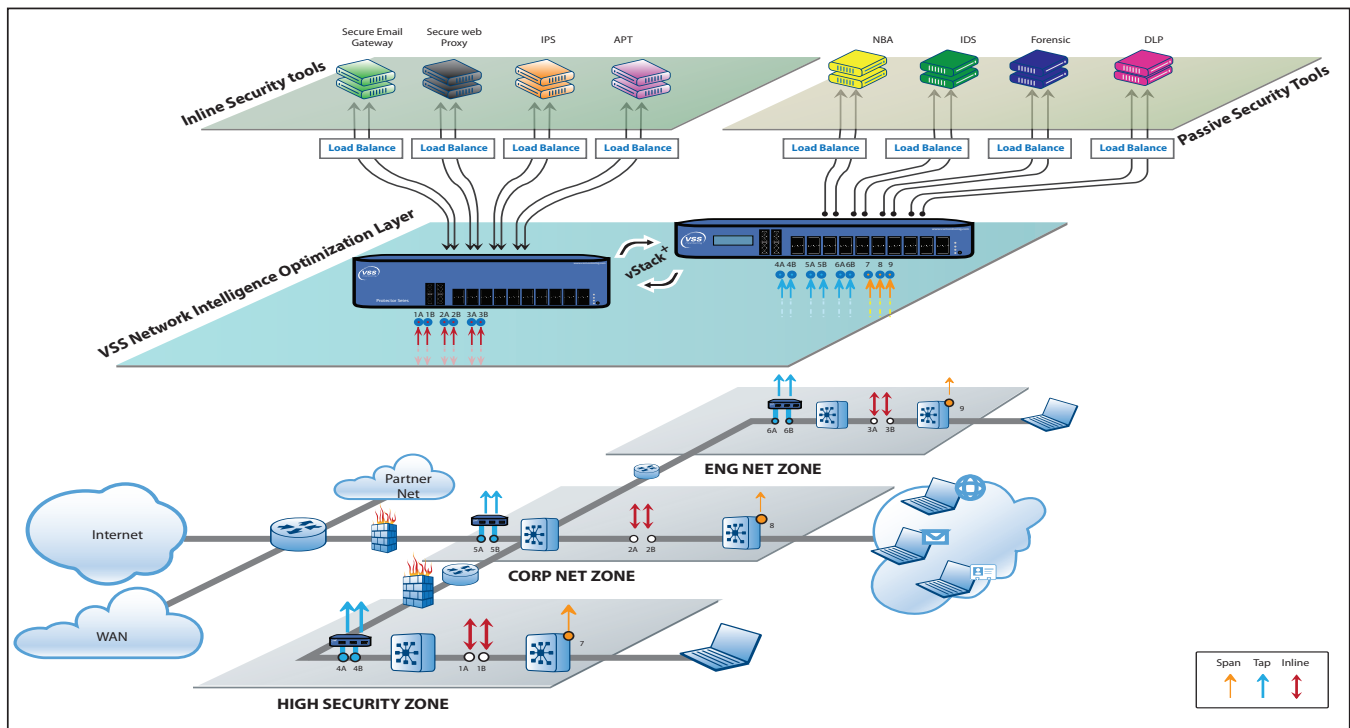


Table 1.0 – VSS Monitoring Network Intelligence Optimization Architecture



USA  
 (Corporate HQ)  
 + 1 650 697 8770 phone  
 + 1 650 697 8779 fax  
 1850 Gateway Drive - Suite 500  
 San Mateo, CA 94404  
 USA  
 www.vssmonitoring.com

Japan  
 + 81 422 26-8831 phone  
 + 81 422 26-8832 fax  
 T's Loft 3F, 1-1-9,  
 Nishikubo, Musashino,  
 Tokyo, 180-0013  
 Japan  
 www.vssmonitoring.co.jp

China  
 + 86 10 6563-7771 phone  
 + 86 10 6563-7775 fax  
 C519, 5 Floor,  
 CBD International Tower  
 16 Yong'An Dong Li,  
 Beijing, China 100022  
 www.vssmonitoring.com.cn

VSS Monitoring, Inc. is the world's leading innovator of Distributed Traffic Capture Systems and network taps, focused on meeting the rapidly evolving requirements of security and performance conscious network professionals. Distributed Traffic Capture Systems herald a new architecture of network monitoring, one which fundamentally improves its capability and price-performance.

VSS, Distributed Traffic Capture System, vAssure, vStack+, and LinkSafe are trademarks or registered trademarks of VSS Monitoring, Inc. in the United States and other countries. Any other trademarks contained herein are the property of their respective owners.