CASE STUDY

SOOSAN INT and Keysight Help South Korean National Bank Modernize its Network Monitoring and Threat Detection

KEYSIGHT

Overview

A premier South Korean government-owned bank is modernizing its main data center security architecture to address expanding network traffic and an evolving threat landscape. Facing the critical need to eliminate blind spots within encrypted connections while ensuring seamless orchestration across their security stack, the organization sought a centralized visibility solution.

To achieve this, they deployed a powerful joint architecture combining Keysight network packet brokers with SOOSAN INT's ePrism SSL VA. This integration replaced isolated monitoring with a unified platform, ensuring that high-speed traffic is decrypted, filtered, and precisely delivered to the right security tools without compromising performance or reliability.

Highlights

Industry: Finance

Customer: Government-owned central bank of South Korea

Challenge: Upgrading visibility to support expanding network and evolving threat landscape

Solution: Implement SOOSAN INT ePrism SSL VA to provide dedicated, highspeed TLS/SSL decryption with Keysight Network Packet Brokers (NPBs) distributing traffic to ePrism and all connected security solutions

The Challenge

Securing a financial institution demands complete visibility and precise orchestration. To strengthen IT security, accelerate threat detection, and expand traffic visibility and monitoring as their network evolves, the bank decided to deploy a network visibility and distribution solution in its main data center.

They conducted a Proof of Concept (PoC) demonstration that led to a decision to establish a centralized visibility platform for security devices based on Keysight's Vision NPBs. During this process, the Keysight team introduced ePrism SSL VA to the security team to ensure visibility into TLS/SSL traffic. The decision-making team consisting of system engineers, cybersecurity managers, and security architects required the new platform to provide:

- Seamless integration with existing security solutions (IPS, APT, URL filtering, SIEM)
- Secured network visibility and comprehensive visibility into TLS/SSL traffic
- High-capacity processing of aggregated network traffic
- A user-friendly, cost-effective solution with scalability to meet future requirements

After conducting Benchmark Tests (BMT) to compare vendor approaches, the bank selected ePrism SSL VA as its SSL visibility solution and moved forward with a joint SOOSAN INT/ Keysight deployment.

The Solution: A Modern Joint Solution from SOOSAN INT and Keysight

From the initial review of network visibility partners, the team cited flexible deployment options, scalable architecture, ease of use, and low Total Cost of Ownership (TCO) as the primary drivers for choosing Keysight. For this main data center deployment, they sought to fully leverage Keysight's world-class GUI and advanced packet processing capabilities.

> "ePrism SSL VA eliminates blind spots by decrypting TLS/SSL traffic," said CISO at the South Korean bank. "Paired with Keysight's precise routing of data to the appropriate security devices, this integration creates a robust, scalable infrastructure designed for reliable long-term threat detection and forensics."

Having selected ePrism SSL VA for its high performance, flexible integration capabilities, and ability to block evasion paths such as QUIC, the team is particularly satisfied by its intuitive GUI and swift, straightforward handling of certificate pinning sites.

With the ideal solutions selected, the team commenced deployment of a Keysight network packet broker. The powerful new appliance delivers full-featured network packet broker capabilities, including:

- High-performance traffic aggregation
- Intelligent filtering and deduplication
- Efficient forwarding of traffic to ePrism SSL VA and other go-to security tools

What's Next?

The joint network visibility architecture from SOOSAN INT and Keysight is engineered to meet future demands head-on. As TLS/SSL traffic volumes grow, the solution supports seamless scalability — allowing the organization to simply add ePrism appliances to the Keysight network packet broker fabric. Looking to the future, the bank is well positioned to unlock deeper visibility intelligence by deploying Keysight's AppStack and SecureStack software suites, enabling advanced analysis and rapid threat detection.

About Keysight Technologies

Connect and Secure the World with Dynamic Network Intelligence

The need for always-on networks is pervasive, and expectations are high when it comes to keeping them connected and secure. As technologies advance, edge computing, cloud environments, sophisticated security threats, increasing bandwidth requirements, and demanding compliance regulations make it challenging to extract actionable insight from your network. Keysight can help. Customers rely on our solutions to deliver rich data about network traffic, applications, and users across any networking environment. This deep insight is what we call dynamic network intelligence. It helps you continuously innovate, meet aggressive service level agreements, and keep applications running smoothly and securely.

Visit GetNetworkVisibility.com for the latest from Keysight on insights for optimizing network monitoring, security, and analysis.

For more info, contact: 1-888-438-4942 or visibilitysales@keysight.com

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