SOLUTION BRIEF

AI-Enhanced Packet Brokers: Transform and Accelerate IT and Security Operations

A new era of AI-led observability reduces risk, cost, and response times

IT environments can never move too fast, nor be too secure. As cyber risk continues to evolve, businesses need to find new and faster ways to detect threats and troubleshoot performance issues.

Artificial intelligence (AI) and machine learning (ML) help enterprise IT and security operations (SecOps) teams maintain a powerful speed and agility advantage—one that works to reduce risk, cost, and time to act—at scale. Keysight's new generation of AI-powered visibility solutions takes full advantage.

The addition of AI transforms traditional network packet brokers (NPBs) into highly intelligent Insight Brokers that accelerate workflows. AI-enhanced packet brokers feature improved memory and storage to run best-in-class AI security and performance monitoring software.

Accelerate the value of AI with flexible deployment models

AI-powered Vision appliances feature enhanced storage and memory to perform real-time analysis and enrichment of data used in threat detection and response. The new era of AI-led visibility solutions includes:

- Keysight's integrated AI Stack software that applies AI earlier in the monitoring process. AI Stack provides anomaly detection, dynamic application signature identification, and predictive analytics to lighten the burden on monitoring tools. Keysight's AI software also allows more processing to happen at the edge of the network, as well as in traditional data centers to optimize network and cloud utilization.

- The Keysight Application Fusion Program (Fusion Program) integrations of third-party AI speed deployment of best-of-breed visibility and monitoring solutions. AppFusion AI integrations help customers build multi-vendor platforms with reduced hardware requirements and operations costs.

Consolidating multiple servers and AI monitoring agents within a Vision Insight Broker speeds deployment and streamlines centralized management of a next-generation visibility and monitoring infrastructure.

WHAT IS AN AI-ENHANCED PACKET BROKER?

An AI-enhanced packet broker is a memory- and storage-enhanced Vision network packet broker (NPB) that runs Keysight's AI Stack software and integrates AI monitoring agents from Keysight alliance partners.

Instead of just filtering out unwanted data and delivering the right network traffic to the right tools, AI-enhanced packet brokers process data at the network edge—reducing the burden on tools and analysts' workload.

Key benefits

Accelerate threat detection and response

AI Stack and the Fusion Program equip your NetOps/SecOps teams to:

- Improve and accelerate anomaly detection
- Train and customize visibility solutions
- Analyze network traffic and potential threats by application type (audio, video, gaming etc.) without resource-intensive deep packet inspection (DPI)
- Predict audio/video streaming quality to improve user experience (UX)
- Analyze encrypted traffic using AI to predict content without performing costly decryption
- Improve cloud security and utilization by suppressing false alarms

Improve cloud and tool utilization

Keysight's AI-enhanced packet brokers optimize both the quality and volume of data sent to your monitoring solutions for analysis. *AI Stack* benefits include:

- Real-time enrichment of network and cloud data to drive analytics via hyper-scale data lakes
- Up to 20% reduction in data volumes that require analysis by monitoring tools
- Cloud service costs reduced by 10% or more
- Easy scalability with on-demand activation of additional visibility and monitoring capabilities

Fuse AI insights into complete monitoring solutions

Initial Fusion Program alliance partner integrations include Forescout EyeInspect cybersecurity monitoring, Instrumentix xMetrics solutions for financial trade flow monitoring, and Nozomi Networks solutions for operational technology (OT) environments.

For additional information on Keysight visibility products and solutions,
visit **www.GetNetworkVisibility.com**