



TRISUL NETWORK SECURITY MONITORING

DATASHEET FOR DEEP PACKET
INSPECTION BASED ANALYTICS



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OVERVIEW

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Trisul Network Analytics is a network traffic analytics platform. Across industries, organizations trust our network solution for real time monitoring of network traffic, detecting anomalies, IPDR regulatory compliance requirements, peering analytics for ISPs. Our Network Security Monitoring solution is our deepest visibility product that leverages analysis at the deepest packet based layer.

Trisul Network Monitoring Solution (NSM) is a full spectrum collection and correlation of network alert events, flows, metadata artifacts, traffic profiles, and packets. Such deep collection and analysis at the packet level enables three powerful benefits.

KEY CAPABILITIES



Trisul 7.0 is designed to make Network Security Monitoring Solution feasible to organizations of all types and sizes.

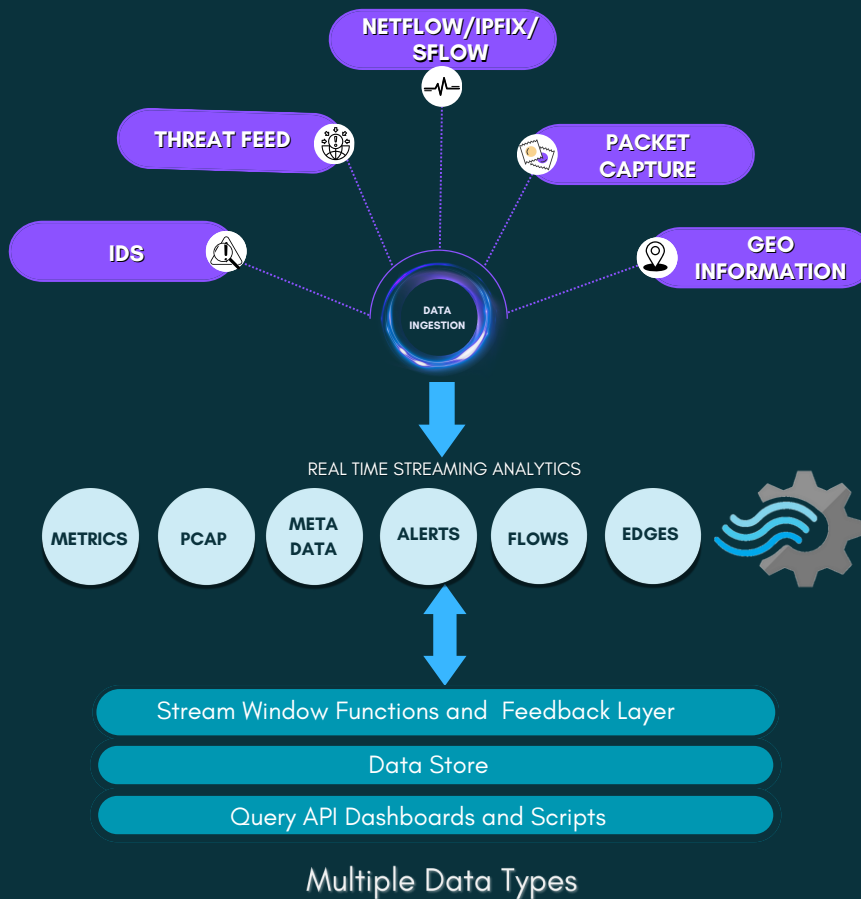
NSM FEATURES

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TRAFFIC ANALYSIS

L2 to L7 Packet Based Metrics

Trisul NSM delivers multi layer network visibility through high resolution traffic metrics. Out of the box you get 200+ metrics and dozens of Top-Talkers at all layers, fully customizable metric, and real time analytics. Trisul NSM works at the packet level, so you miss nothing.



FLOW ANALYSIS

Full record of conversations

Trisul reconstructs IP conversations (flows) from packets, indexing and storing them in a custom-built database designed to scale billions of flows with sub-second query response times. The Explore Flows tool allows you to search for any flow in the past. Flow Trackers and Flow Taggers allow you to mark flows of interest in real time. Trisul NSM stores all flows without rollups so you can rely on it as a reliable source of truth for long term investigations.

EXTENSIBILITY

LUA API and Trisul Apps

Get creative with our powerful LUA API which enables integration of custom detection and metrics into the streaming analytics engine. The TRP API enables database integration with other systems. Trisul APP are free pluggable extensions to provide enhanced functionality to Trisul NSM.

METADATA

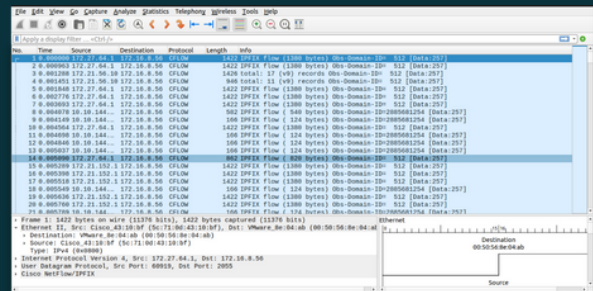
Extracts objects from network

Trisul NSM continuously tracks packets, reconstructs them using TCP analysis, and extracts metadata. These metadata are stored as searchable resources and FTS documents. Examples are DNS records, HTTP headers, SSL certs, file hashes, and reconstructed binaries. This enables query-based investigation and scanning for threat analytics Indicators of Compromise.

RAW PACKETS FROM ANY ANALYSIS POINT

Jump to raw packets from anywhere

TrisulNSM works at the packet level. Hence it indexes packets with flows, alerts, metrics, and resources. Click to get PCAPS (Packet Captures) from any point in your analysis and pull it into Wireshark for further bit level analysis.

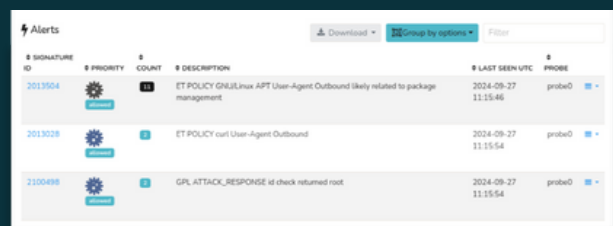


Raw Packet Analysis

SECURITY ANALYTICS

Integrate with IDS and Threat Intelligence systems

Trisul integrates with IDS systems, processing alerts through its streaming analytics pipeline. A built in integration with leading threat intelligence feeds lets you scan all traffic against known indicators of malware. With TrisulNSM you can jump from security alerts to flows to packets to complete your investigation.

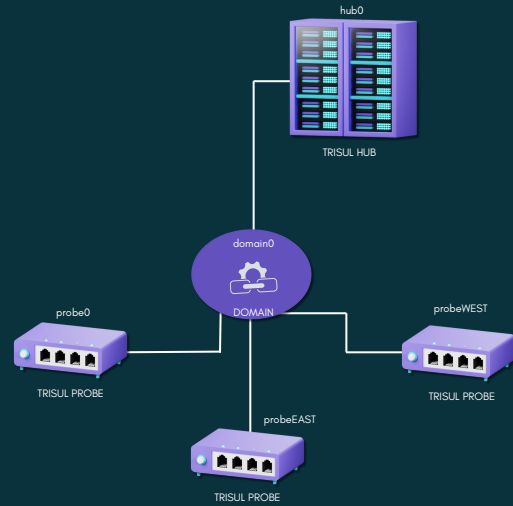


Intrusion Detection Alerts

DISTRIBUTED MULTI-TENANT ARCHITECTURE

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Trisol NSM works on packet capture which can mean tapping traffic at remote office locations. TrisolNSM supports a scalable *Hub* and *Probe* architecture, where Probes capture packets and run streaming analytics, storing packets locally while forwarding other data types to the centralized Hub for database and reporting functions. Multi Tenancy allows customers to host more than one instance of Trisol on the same hardware monitoring different segments or end customers.



Trisol Distributed Multi-tenant Architecture

SYSTEM REQUIREMENTS

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<p>< 300Mbps Single Probe+Hub</p>	<p>< 1Gbps Single Probe+Hub</p>	<p>10Gbps+ One Hub + multiple probes</p>
<ul style="list-style-type: none"> • 2.4Ghz 8 core / • 16GB RAM/ • 1TB HDD/ • 1Gigabit NIC for capture / • 1Gigabit NIC for management 	<ul style="list-style-type: none"> • 2.4Ghz+ 12Core/ • 16GB RAM/ • 2TB HDD/ • 2x1Gigabit NIC for capture/ • 1x1 Gigabit NIC for management 	<ul style="list-style-type: none"> • Hub:2.4Ghz 24Core/ • 32 GB/ • 8TB HDD with INTEL X520/ • X540 10G
<p>Separate disk 1TB and above for Packet Storage</p>	<p>Separate 1TB in RAID 0 (striping) for Packet Storage</p>	<p>Dedicated packet capture cards are supported.</p>

COMPARISON WITH OTHER SECURITY APPROACHES

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Trisul Network Analytics	Intrusion Prevention System	Intrusion Detection System
Passive – does not block traffic	Inline – blocks traffic	Passive
Historical storage	Limited, focused on blocking	-
Deep visibility Traffic Metrics	-	-
Flow reconstruction and storage	-	-
Database included	No DB. Export to 3rd party	No DB
Category of Network Management System	Category of Network Device	Category of Network Device
<p>Use Cases</p> <p>Visibility, Security, Analytics, Incident Alerting, Response, Audit, and Compliance</p>	<p>Use Cases</p> <p>Protection, Firewall role, Attack detection like DoS, Throughput.</p>	<p>Use Cases</p> <p>Detection, Performance, Signature quality, forwarding alerts to SIEM, Splunk, Elastic.</p>