Beyond Network Visibility.

Detect and respond in real-time to live network traffic.

ABOUT THE COMPANY

Mantis Networks software solutions enable organizations to not only view streaming network traffic but to take action on identified traffic of interest across the network stack (layer 2 – Layer 7), in real time and at wire speeds.

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MantisNet leverages real-time network traffic data to help organizations solve problems within network operations and cybersecurity.

The growing volume and increasing speed of data taxes both legacy infrastructure itself, as well as the analytic systems required for engineering and optimization. Organizations are required to continuously evaluate and improve upon these systems to stay ahead of the curve. Additionally, organizations are facing another challenge unique to the times- cyber criminals who are taking advantage of the current explosion of data by hiding exploits within massive amounts of information, and propagating nefarious actions at ever increasing machine speeds.

Given these facts of modern day information technology, it is of paramount importance that threats, in addition to engineering performance issues, be identified and remediated in real-time. To do so requires continuous, real-time situational awareness derived from timely and reliable information. Network traffic is one such area of ground truth, and we are vocal proponents of exploiting the value of continuous, real-time network traffic inspection to best inform risk-based and operational decisions.

MANTISNET'S SOLUTIONS:

The Programmable Packet Engine (PPE)
The Reconfigurable Frame Processor, Next Generation (RFP-NG) software can:

- deployed anywhere on the network
- extract network traffic of interest at wire-speed (up to 100Gbs network speed)
- inspect traffic (L2 – L7) down to the payload
- convert unstructured network information into an "analytic-ready" format to be consumed by any application
- feed analytics to inform decisions
- enable interactive remediation to change traffic in real-time - result in approved processing, filtering or shutting traffic off.

BENEFITS AND USE CASES

Network Operations

- Filter and optimize traffic for ingestion by monitoring and analytics tools
- Improve network performance and reduce downtime
- Implement data plane engineering tactics
- Prevent conflicting data-speed mismatches between data and tools
- Load balance and filter traffic based on network protocol
- Continuous real-time deep packet inspection
- Network visibility for on-premise, hybrid IT and cloud infrastructures

Security Operations

- Reduce MTTD/MTTR by using real-time data and not log analysis based decision times
- Enable zero-trust network/application communication
- Enable network traffic analysis (NTA) with protocol specific identification and filtering
- Mine, combine and analyze real time network telemetry data, from throughout the enterprise, with other sources to detect or corroborate patterns of interest
- Improved detection of traffic anomalies

MANTISNET PRODUCTS

The Programmable Packet Engine (PPE), is an advanced software sensor technology that dynamically processes unstructured network traffic and converts it into structured streaming metadata, in real time. This key capability enables real-time visibility and continuous, event-driven decisioning capabilities that NetOps and SecOps teams need today.

Gain increased visibility in to network traffic with the PPE's in-memory processing to transcode a range of protocols (HTTP, TLS, DNS, GTP, etc.) along with processing engines (REGEX and Entropy) that illuminate specific traffic of interest.

The Reconfigurable Frame Processor, Next Generation (RFP-NG) is a network intelligence and visibility solution for infrastructure and network operations teams. It provides network monitoring of complex traffic at 10G – 100G speeds. It consists of P4 software applications running on a programmable software defined networking (SDN) platform. The RFP NG provides organizations:

- Software controlled connectivity, instrumentation, monitoring without the need to replace existing infrastructure
- Capabilities for data-plane control, flow-aware, load-balancing, traffic shaping, filtering and match-action processing
- Visibility into encapsulated or overly-layered packet streams
- Ability to generate unsampled NetFlow for entire network segments, or for a subset of the traffic as defined by the user via filters
- Telemetry via in-band (INT) and out-of-band (ONT) channels

THE MANTISNET DIFFERENCE

MantisNet takes a fresh look at network **access, visibility, analysis and traffic engineering**. Founded by data plane and network experts, MantisNet solutions are engineered to facilitate the next generation of continuous network inspection, analysis and interaction for:

- analytics and intelligence
- operations and performance monitoring
- fraud detection
- cyber security solutions

MantisNet accesses and transforms unstructured information found within networks- on premise or in the cloud. Wire-speed, event-driven transformation of data is key to all MantisNet offerings and provides organizations with a real-time source of data that can be analyzed by any analytic application.

Continuous real time inspection and interaction
MantisNet solutions access network information "continuously and in real time "- as data traverses' networks. This data is streamed, at wire-speed, to follow-on security, monitoring, and analytic processors... allowing for immediate analysis of DATA-IN-MOTION.

Software driven for scale and speed
MantisNet solutions can be deployed as a service in the cloud or embedded in network hardware - passively or in-line – to interact directly with virtual or physical networks. Wire-speed data is continuously fed directly to your analytic tools, enabling continuous event based predictive analytics and remediation in real time.

Compatible and Interoperable, but architected for the next generation of advanced streaming metadata for continuous real time event processing
The volume, variety, and velocity of today's networks make visibility and control at speed and scale a BIG DATA problem. Full packet capture or managing data from legacy packet brokers is highly inefficient and incomplete. Real-time event-based stream processing and predictive analytics rely on new forms of intelligent, targeted metadata. MantisNet solutions are designed to complement and enrich legacy DATA-AT-REST solutions (PCAP/file/log-based) with real time DATA-IN-MOTION.

Sense what matters.
MantisNet incorporates in-memory protocol processing so you can do real-time data management against network telemetry data. This includes intelligent filtering that helps to better decipher signals from noise so you'll know what's relevant.

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