TrafficWiz™

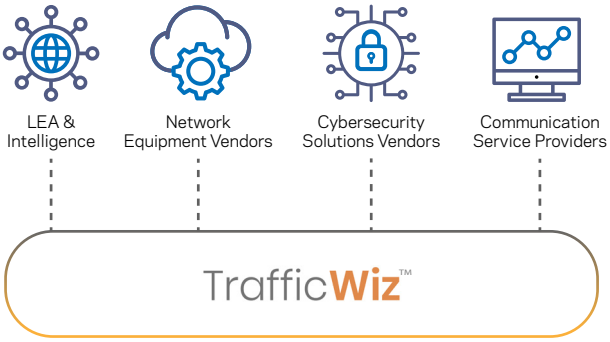
Next-gen solution for encrypted traffic visibility

Overview

TrafficWiz™ is an innovative solution tailored to address the challenges posed by encrypted network traffic. In today's digital environment, where over 90% of network traffic is encrypted and many applications tunnel traffic over HTTPS, conventional methods such as Deep Packet Inspection (DPI) are quickly losing their effectiveness.

With the introduction of TLS 1.3 with ESNI, QUIC, and DoT, the ability to inspect traffic in the traditional manner is diminishing. As a result, operators find themselves unable to block illegal applications, enforce policies, and detect cyber threats hiding behind encrypted traffic. Powered by state-of-the-art deep learning algorithms, TrafficWiz Classifier excels in accurately identifying underlying application names and traffic types, providing unparalleled accuracy even with encrypted data.

In addition to its robust classification capabilities, TrafficWiz serves as a comprehensive Toolset developed to empower clients seeking greater control over their network intelligence requirements. Whether organizations aim to add, augment or enhance existing Data-of-Interest, TrafficWiz equips them with the tools needed to achieve comprehensive visibility and control over network traffic, catering to markets such as Communication Service Providers (CSPs) and Law Enforcement Agencies (LEAs).



VISIBILITY
Classification of encrypted traffic

HIGH THROUGHPUT
Support for up to 25 Gbps traffic

EASE OF INTEGRATION
Reduces development cycles & costs using published APIs

CUSTOM TRAFFIC MODELS
Platform facilitates simple in-house development of new models

MULTI-MODE CLASSIFICATION
Efficient classification via cached traffic intelligence

TrafficWiz Toolset

TrafficWiz Toolset comprises three distinct tools: Labeler, Modeler, and Classifier. These tools create an ecosystem for inspecting, developing, and analyzing encrypted network traffic using AI approaches.

- Labeled data is a crucial component for AI-based solutions that require supervised machine learning. The Labeler tool provides the ability to analyze encrypted data through a graphical interface, facilitating large-scale data annotation in an automated manner.
- The Modeler allows customers to experiment with end-to-end AI pipeline components for creating and training a model. It serves as a platform for experimentation during the model development phase.
- The Classifier tool utilizes the trained model to classify network traffic, identifying application names (such as Netflix, Spotify, WhatsApp, Skype) and traffic types (such as Streaming, Chat, File Transfer). Classification can be performed on live networks at speeds of up to 25 Gbps or from pcap files. The Classifier can function as a standalone tool or be used as middleware for integration with third-party software using published APIs.

The Labeler and Modeler tools are optional for customers, providing the opportunity for in-house model development to enhance classification capabilities.

Solution Highlights

- **Enhanced Visibility:** regain full traffic visibility lost to encryption with next-generation classification engine
- **Seamless Integration:** ease of integration with minimal resources, reducing costs and time-to-market
- **Real-time Classification:** for mission-critical network analytics, security monitoring, and threat detection
- **Encrypted Traffic Analysis Ecosystem:** a comprehensive framework for inspecting, developing, and analyzing encrypted network traffic using AI techniques

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