The Network for the Modern Cloud Era

The Mist Microservices Advantage

Sujai Hajela EVP Al-driven Enterprise

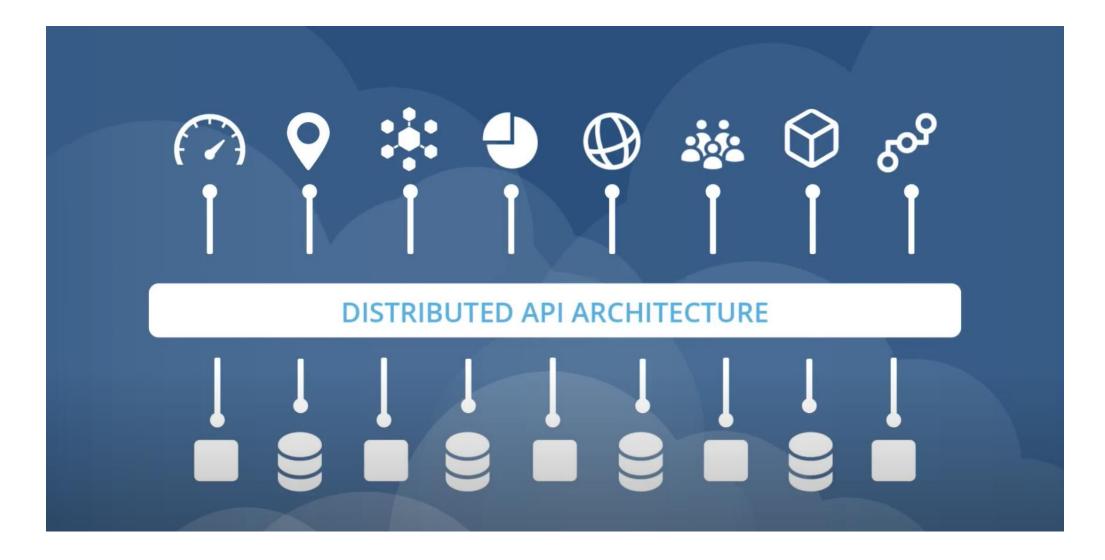


"Up" is not the same as "Good"

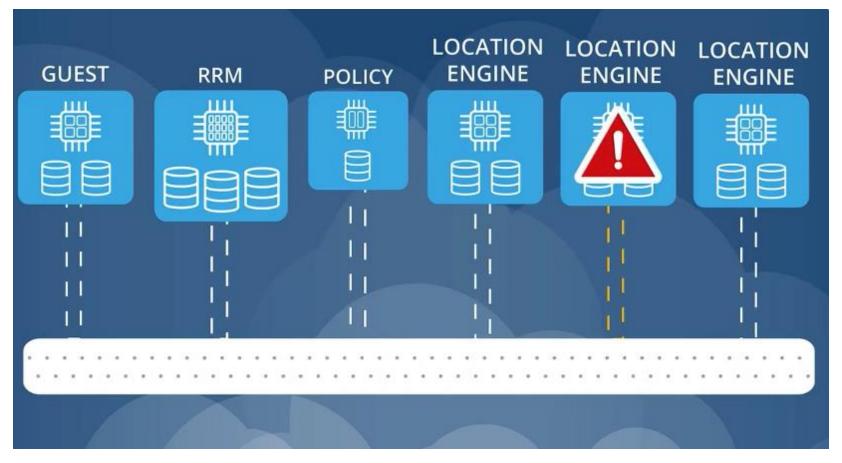




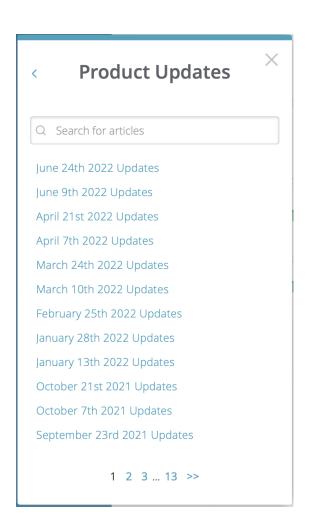
It starts with a modern cloud



Microservices ensure elastic scale, resiliency, and speed



Only Juniper Mist has bi-weekly product enhancements



Announcements June 24th 2022 **New Features Announcement Simplified Operations** AP list in 'Network Analytics' and 'Marvis Query' now includes more information Wired/WAN Assurance Support for configuring the **RADIUS Source Address in Wired** Configs Organization-level Network Topology for SSR gateways [Beta] Support for sending TSI logs from an SSR device to the Mist cloud Mist Edge Configurable WLAN RadSec Idle Timeout Radius Source for RadSec Proxy Misc Global 03 is the new default

GLOBAL region for new users. No

- No scheduled cloud downtime
- Rapid response to industry issues (eg KRACK)
- Seamless / scalable global updates

Scalable AIOps requires a modern cloud back-end



Conversational Al

Marvis Virtual Network Assistant



Reinforcement Learning

RRM

Neural Network

Time Series Anomaly Detection, NLP, Geo-Spatial Analysis

Unsupervised Learning

Location

Transformer-based Language Models

Marvis Conversational Assistant

DEEP LEARNING

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

K-Means Clustering

Environment Learning

Decision Tree

AP / Switch Health, DHCP Health, Coverage Hole

Online ARIMA

Time Series Anomaly

XGBoost / Decision Tree

Throughput Prediction

Logistic Regression

AP / Switch Health

Probabilistic Graphical Models

Root Cause Analysis

Mutual Information

Feature Discovery

Domain Expertise Classification

Service Level Metrics, Event Timeline

Bayesian Inference

Persistently Failing Clients, Auto Placement of AP

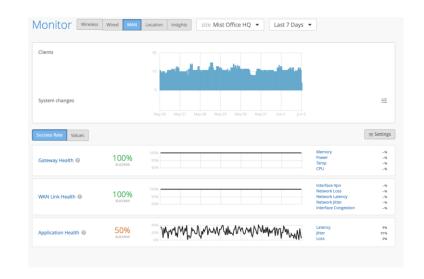
Temporal Correlation

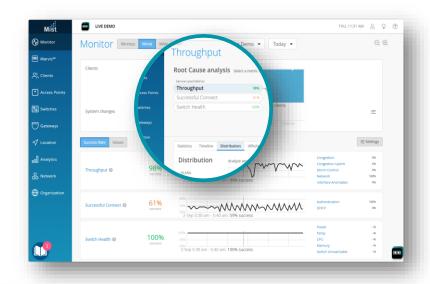
Root Cause Analysis

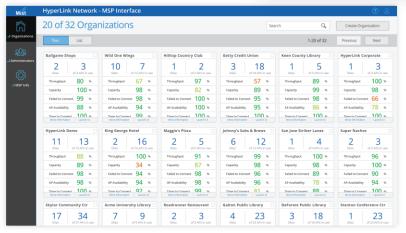
Real-time insight into user experiences

Data streaming to the cloud provides insight into wired, wireless, and WAN experiences:

- 150 wireless user states for every wireless client sent every few seconds
- Telemetry data from Juniper EX switches and SRX firewalls
- Session smart data (Al-driven SD-WAN)
- Location data (wayfinding, asset location, analytics, etc)

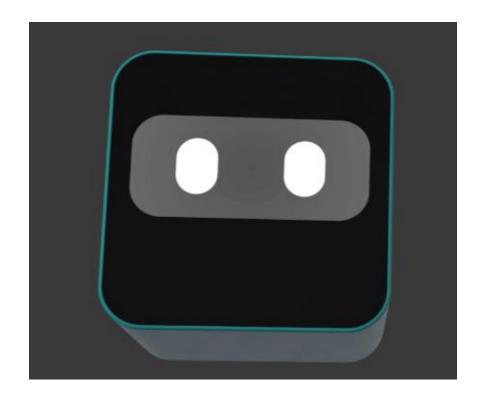








Meet Marvis – First Al-Driven Network Assistant



Meet Marvis - First Al-Driven Network Assistant

What is wrong with my network today?

ACTIONS

OCUMENTS

5

APPLICATION

SECURITY

DIGATEWAY

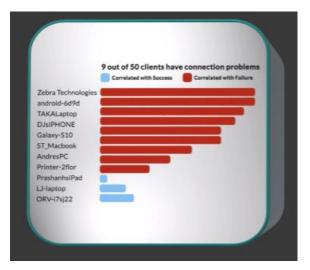
2 SWITCH

Roaming
The client had a bad roaming experience 25% of the time primarily due to poor signal quality. This problem is affecting a small number of clients, correlating most strongly with the "Rivendell" WLAN.

NOTE THE ATT



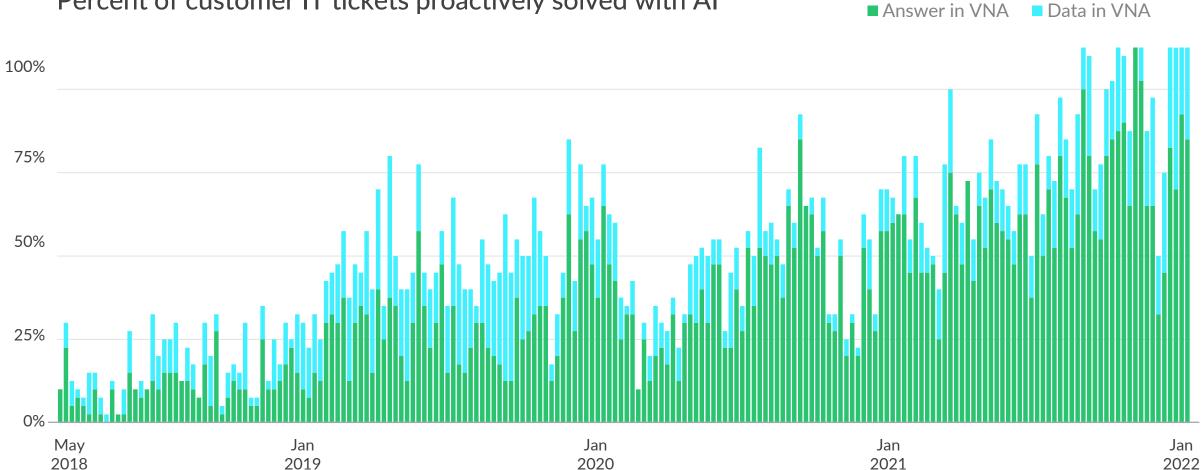
Show me all unhappy users



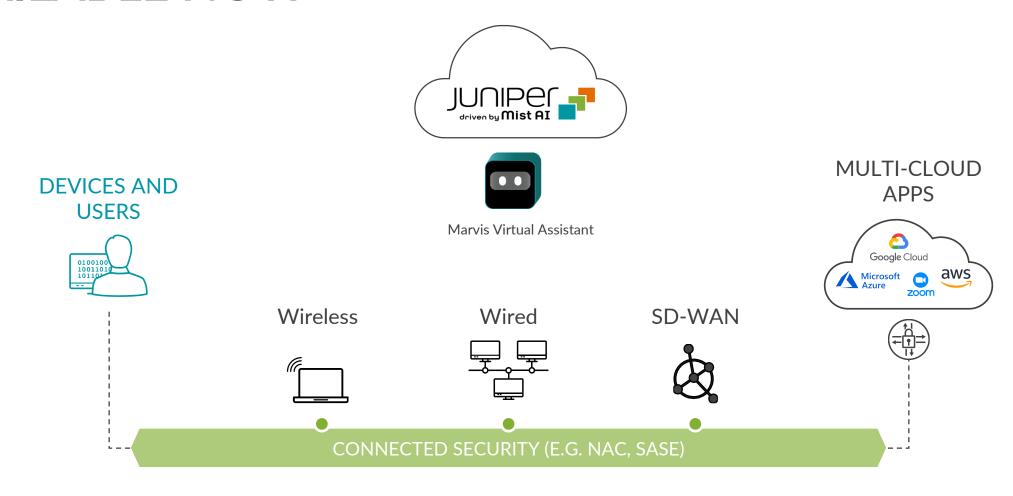
What is wrong with Jeff's laptop?

AI-DRIVEN SUPPORT: IT KEEPS GETTING BETTER WITH TIME

Percent of customer IT tickets proactively solved with AI



Only Juniper has a proven, full-stack solution AVAILABLE NOW



Cloud Native, Al-Driven, Session Smart

Better User Experiences; Better IT Outcomes



Juniper Mist is Fundamentally Different



Global Logistics Company

"...MTTR down 96% on average per ticket"

Fortune 10

"...dramatically decreased rollout time"



"...85% reduced site visits"



"...over 90% reduction in user opened support tickets"



"...it's like we woke up from a dream, watching Mist roll out"



"...best technology we have ever deployed in restaurants"

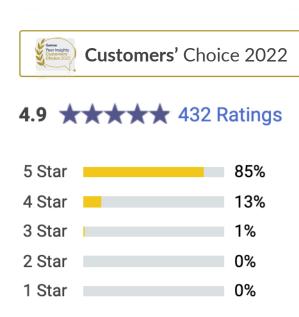


"...since Marvis, escalated tickets are down by factor of 10"

Juniper is first in wired/wireless access

Figure 1. Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure





2 Years a Leader
Positioned Furthest in Execution & Vision

Figure 1: Magic Quadrant for Indoor Location Services, Global



The Only Networking company Leading in the Location Services MQ

