velocloud™
Now part of VMware

Mist
A.I. is in the AIR™

Delivering Better Experiences Across Your WLAN and WAN

Solution Overview

IT has never been more important, but IT must do more with less. As companies look for new IT solutions that mitigate downtime and reduce human intervention, IT must shift from reactive to proactive, from network-centric to user-centric, and from manual to automated.

AI is the fundamental approach to meet the new requirement for IT, providing much needed automation to lower costs, maximize IT efficiency, and expedite problem resolution. AI also provides unprecedented insight into user experience and behavior to optimize IT resources, predict trends, and provide critical data back to the business.

Mist partnered with VeloCloud, now part of VMware, to bring AI to several key elements of the IT stack, creating a cohesive and automated solution into the end user experience – from the Wireless LAN (WLAN) to the Wide Area Network (WAN). The two companies deliver end-to-end visibility, simplicity, and exceptional performance, particularly for business-critical applications such as video and voice.

Branch WAN Challenges

Today's branch office users are consuming more WAN bandwidth as they collaborate online (e.g., Skype for Business, WebEx, Office 365), increase the use of Software-as-a-Service (SaaS) and cloud services, access large rich-media files, and leverage other bandwidth-intensive applications. Corporate IT is facing significant challenges addressing these demands due to the complexity, cost and static architecture inherent in their existing WAN. The vast majority of branch office WAN traffic is carried over expensive leased lines (private MPLS circuits) or unpredictable Internet connections (DSL, Cable, LTE) — neither of which is ideal on its own. Deploying leased lines for all bandwidth needs is cost prohibitive and time-consuming, while adopting the public Internet — with its lack of uptime, reliability and performance guarantees — may result in a poor user experience.

NSX SD-WAN enables enterprises to support application growth, network agility and simplified branch implementations while delivering optimized access to cloud services, private data centers and enterprise applications simultaneously over both ordinary broadband Internet and private links.

Branch Wireless Challenges

Branch wireless networks are more business critical than ever for distributed enterprises. However, they are harder than ever to operate given the sheer magnitude of mobile devices and IoT resources, and the extensive variety of hardware, operating systems, and applications in use by mobile clients. Traditional Wireless LAN (WLAN) architectures take a manual network-centric approach to wireless, which lacks the scale, flexibility, and insight to support the needs of today's mobile users (and the IT departments that manage them).

The learning WLAN from Mist simplifies the deployment and ongoing management of wireless branch networks. It leverages an AI foundation and an agile microservices cloud architecture with complete API access to support distributed deployments with ease.

JOINT SOLUTION HIGHLIGHTS

ADVANTAGES OF MIST / NSX SD-WAN SOLUTION

- Assured application performance, WLAN to WAN
- AI-driven operations boost efficiency and cost savings
- Simplicity and SaaS agility enabled by leveraging a modern cloud with open APIs
- Eliminates compromises with best-of-breed WLAN and WAN products
- Delivers end-to-end visibility and deep policy integration across WLAN and WAN

ABOUT MIST

Mist built the first AI-driven wireless platform, designed specifically for the Smart Device Era. The Mist Learning Wireless LAN makes Wi-Fi predictable, reliable and measurable by providing unprecedented visibility into the user experience and by replacing time consuming manual IT tasks with proactive automation. In addition, Mist is the first vendor to bring enterprise-grade Wi-Fi, BLE and IoT together to deliver personalized, location-based wireless services without requiring battery-powered beacons. All operations are managed via Mist's modern cloud architecture for maximum scalability, agility, and performance.

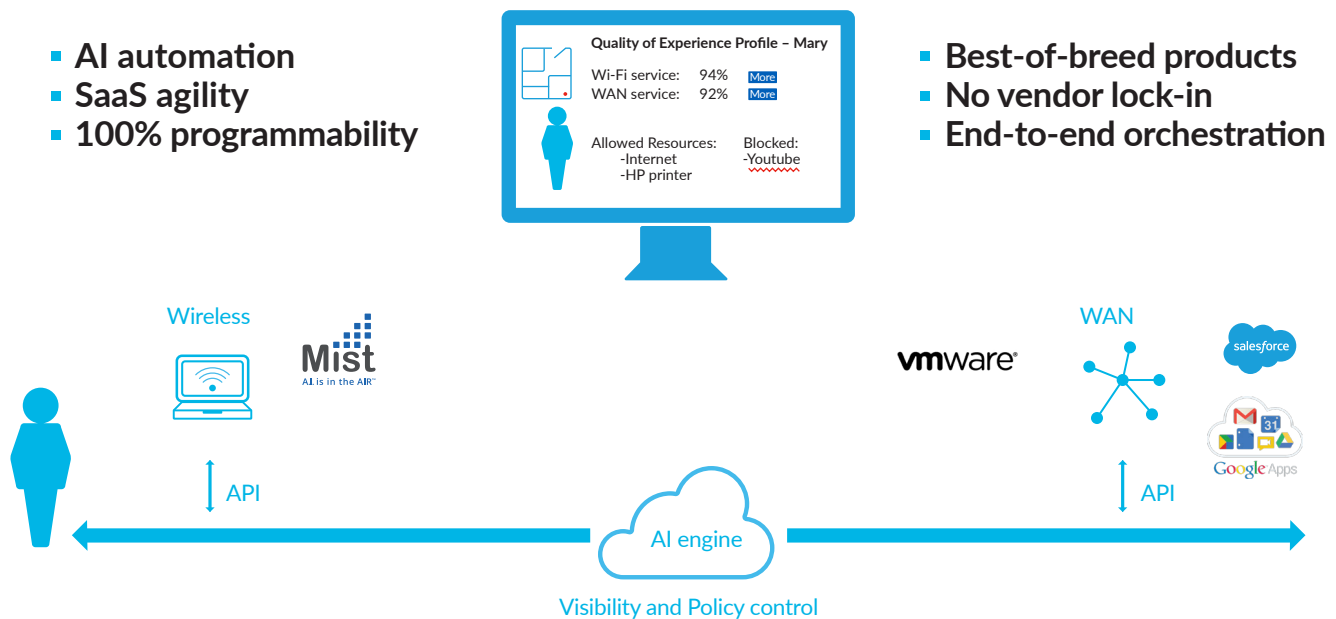Find out more at www.mist.com.

ABOUT VMWARE

VMware software powers the world's complex digital infrastructure. The company's compute, cloud, mobility, networking and security offerings provide a dynamic and efficient digital foundation to over 500,000 customers globally, aided by an ecosystem of 75,000 partners. Headquartered in Palo Alto, California, VMware celebrates twenty years of breakthrough innovation benefiting business and society.

For more information, visit www.vmware.com.

Unify WAN, LAN, and Wireless LAN

Users require a seamless and reliable experience - from the device, across the LAN and to the applications they access over the WAN. But this is increasingly difficult for IT to achieve as mobile devices, applications, and secure endpoints are growing in quantity and diversity, and both data and people are increasingly distributed. In addition, when issues occur impacting the end-users' application experience, it is extremely onerous and time consuming to isolate and identify what may be causing the issues.

To provide end-to-end visibility and operational simplicity with a completely programmable & automated network, Mist and VMware have partnered to create a seamless and reliable WLAN/WAN experience.

- **AI automation**
- **SaaS agility**
- **100% programmability**

Quality of Experience Profile – Mary

Wi-Fi service: 94% More
WAN service: 92% More

Allowed Resources: Blocked:
-Internet   -Youtube
-HP printer

- **Best-of-breed products**
- **No vendor lock-in**
- **End-to-end orchestration**

Wireless

Mist
A.I. is in the AIR™

API

AI engine

Visibility and Policy control

WAN

vmware®

salesforce

Google Apps

API

The combined solution provides end-to-end visibility into the user experience, giving IT administrators unprecedented insight into user, application, and network performance for LAN, WAN, across the cloud and datacenter. The joint Mist and Velocloud NSX solution also delivers rich analytics from both the LAN and WAN, enabling administrators to optimize the end-user experience and the network.

In addition, it uses Artificial Intelligence to automate key tasks, such as event correlation and anomaly detection, for fast and easy fault isolation and remediation, trend detection, and predictive recommendations to avoid problems before they occur. Open APIs enable key data to be easily shared between systems (and with other systems) and provide a fully programmable platform by which IT administrators can create custom workflows and other automation procedures.