

# **Juniper Networks**

#### **About Us**

- Strictly networking and cybersecurity focused company founded in 1996 headquartered in Sunnyvale, CA.
- Global reach with over 10,000 employees in 120 locations across 50 countries around the world – annual revenue for 2022 was \$5.3B, nearly 12% growth from 2021.
- Develops and markets routers, switches, access points, network management software, network security products and software-defined networking technology.
- Mission is to empower healthcare IT leaders to deliver simplified experiences for those who run networks and the patients, clinicians and staff who depend on them.



















### A Modern Foundation for Health & Life-Sciences

**COMPANY HIGHLIGHTS** 

TOP 3 **ENTERPRISE VERTICAL** 



10+%



OF THE TOP 10

LARGEST U.S. HEALTH SYSTEMS RELY ON JUNIPER

**INDUSTRY CHALLENGES** and TRENDS



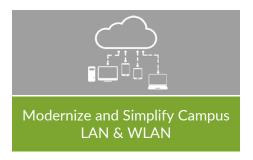








**SOLUTIONS ALIGNED TO INDUSTRY CHALLENGES** 









#### PROUDLY PARTNERING WITH A GROWING SET OF COMMUNITY PROVIDERS





























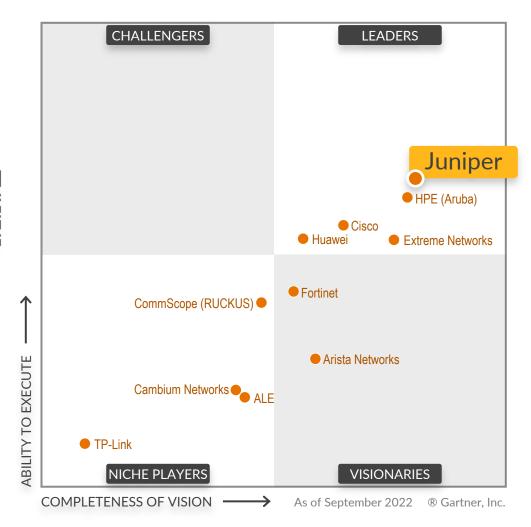






## Gartner Magic Quadrants – Quick Glance

#### Wired and Wireless LAN Infrastructure



#### **Indoor Location Services**

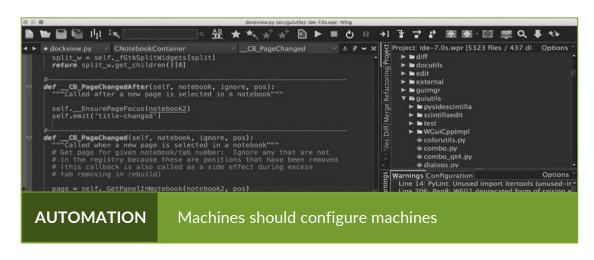




## Harnessing the Power of the Network and Al

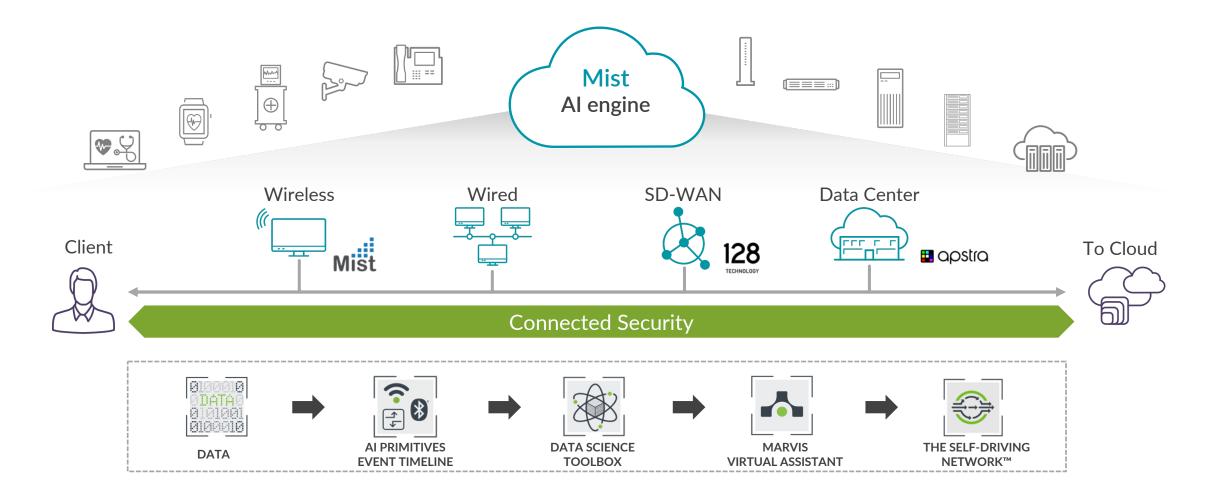




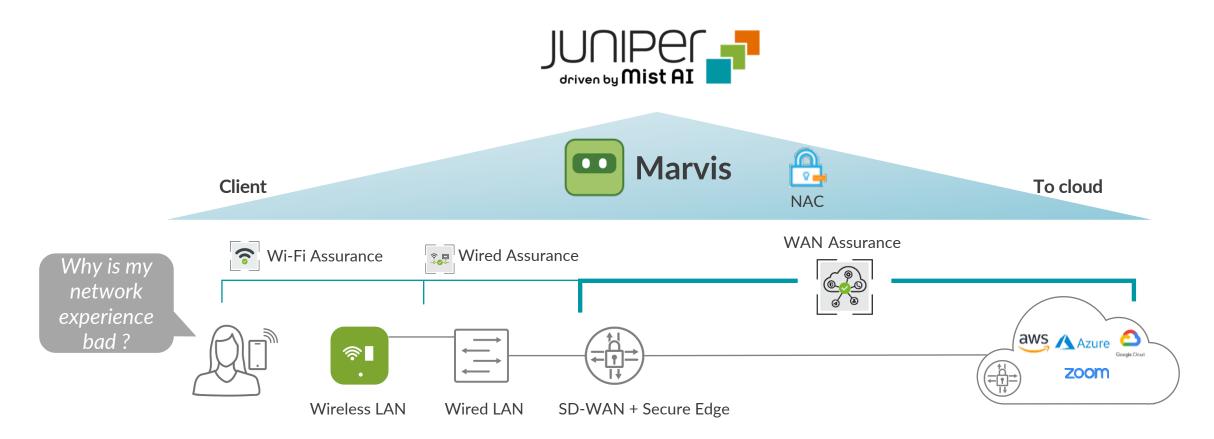




## Delivering Insight, Automation, and Action



# **Experience First Networking, From Client to Cloud**



CLIENT TO CLOUD - AI DRIVEN, CLOUD NATIVE, SESSION SMART, SECURE

## A Transition is Taking Place...

#### **USER EXPERIENCE**

The only vendor in the industry with a cloud built to measure and improve user level visibility.

#### **DIGITAL ENGAGEMENT**

Engage patients, guests, and staff digitally without overlay systems; vBLE becomes the art of possibility.

#### MICROSERVICES CLOUD

A modern microservices architecture ensures a network that is easy to operate and agile; updates weekly with no disruption.

#### **ARTIFICIAL INTELLIGENCE**

The industry's only Self-Driving Network; means fewer tickets, more visibility, and much happier users.

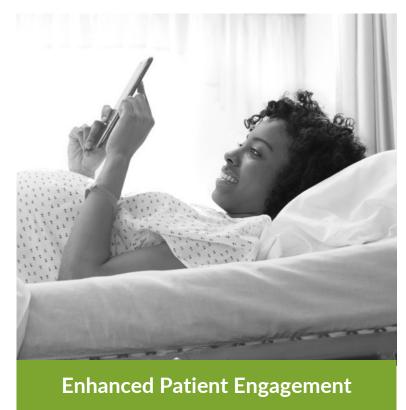


### VIRTUAL NETWORK ASSISTANT

A conversational interface provides real-time answers about the network; say goodbye to memorizing CLI commands or shuffling between multiple dashboards.



## And Experience is the Driving Force...



- Provide easy step-by-step navigation
- Streamline check-in process
- Deliver concierge-like services
- Engage and deliver personalized touch



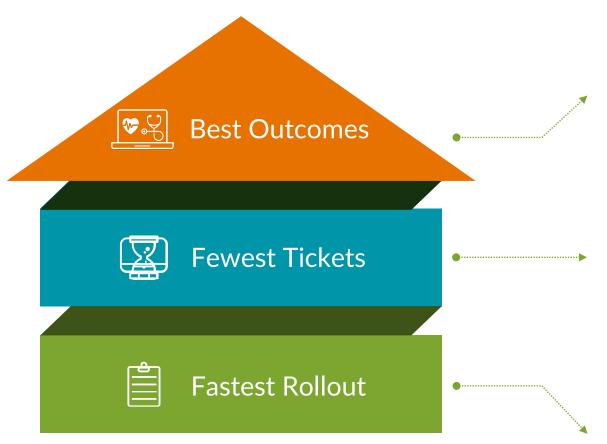
- Utilize resources more effectively
- Track location of critical assets
- Receive priority service levels
- Improve engagement opportunities



**Enriched IT Operations** 

- Receive fewer support tickets
- Decrease time to resolution
- Eliminate physical beacons & BLE surveys
- Boost visibility, accuracy and performance

## Intelligent Network Platform for Modern Healthcare



### **Smart Foundation for Digital Health**

- Measure and metric user experience
- Engage with patients, guests & staff with BLE
- Deliver location services for asset tracking, wayfinding, etc.
- Modernize architecture for reliability, growth, and agility
- Future-proofed for strategic, expanding IT functions

### **Proactive Network Operations**

- Fewer support tickets and faster MTTR no chasing ghosts
- Updates every other week; no downtime
- Proactive, integrated support, and quickest RCA

### Automated, No Mistakes, Simple

- Single click activation via cloud-ready APs and switches
- Fewer templates, more flexibility
- Automated IoT onboarding
- Compatible with Cisco brackets



# Modern Healthcare Mobility is a Necessity

### Customer





- 12 hospitals in VA and Northeast NC
- 2.735+ beds
- 29,000+ employees

### Challenges

- Innovating in a traditional controller-based architecture that was constantly plagued with outages and performance issues due to network saturation
- Supporting the growing number of devices, users, and applications while providing a platform that could drive new engagement opportunities for patients and staff

### Juniper/Mist Solution Delivers

- Wi-Fi 6E for high-density hospital environments, where latency has had a serious impact on clinical workflow, patient care, and satisfaction
- Higher bandwidth spectrum, which means faster connections with less interference (clean airspace) from legacy devices and better service for those devices that can connect to the 6GHz spectrum
- CapEx savings of more than 20% by leveraging cloud-based microservices model
- OpEx savings of 20-30% with AI and Wi-Fi automation features

**SUCCESS STORY** 

# A Modern Network Built for Optimal Care Delivery

### Customer





- 4 hospitals in Northeast GA
- 790+ beds
- 7,500+ employees

**SUCCESS STORY** 

### Challenges

- Modernizing the health system technology platform via a multi-year journey to support growth of applications, mobility, medical images, voice/video, and biomedical data
- Building a bulletproof campus/data center network to ensure uninterrupted operations due to the sensitive nature of patient care

### Juniper/Mist Solution Delivers

- Proactive insights, PCAPs, and taking action to reduce support tickets and chasing down staff to recreate issues
- RF reliability in a noisy environment, while auto-enabled RRM and AI continuously fine tunes the device experience
- Support for more than 50K devices and designed to scale to many more
- Reduced network provisioning time by more than 50%
- Over 30X faster to provision back-up connectivity to admin buildings
- loT and BLE technology integration with solutions such as infant protection, hand hygiene, staff duress, humidity/temperature sensors, etc.

# **Optimizing the Veteran Experience**

#### Customer



Orlando VA Medical Center at Lake Nona



- 65-acre campus
- 314 beds (inpatient, domiciliary, living)
- Serves region's 400,000 veterans

### Challenges

- Large 1.2M sq. ft. medical center was difficult for patients and staff to navigate and find medical assets
- Executive team wanted to boost patient experience for the 400,000 veterans served annually and look for innovative ways to deliver a high-touch engagement

### Juniper/Mist Solution Delivers

- Indoor navigation, push notifications, patient check-in with mobile app
- Guest Wi-Fi delivered by over 8,000 Mist APs across multiple VISN hospitals
- Launched asset visibility program where 3<sup>rd</sup> party tags integrate with Mist vBLE for locating critical medical assets such as wheelchairs, pumps, vents, carts, etc.
- IoT and BLE technologies integrated with Stanley door locks to prevent patient elopement in areas for risk
- User experience boosted while streamlining help desk operations

**SUCCESS STORY** 

# Making the 'Art of the Possible' a Reality













#### **Use Cases and Outcomes:**

- Improve communication with patients from appointment planning through hospital visit
- Provide visibility into delayed and/or missed appointments
- Deliver turn-by-turn navigation
- Offer concierge service for "Uber-like" experience
- Monitor the location of key assets, including people and medical equipment
- Elevate safety profile by controlling door systems via IOT port connectivity

## **Outcomes You Will Experience**

All data resides in the cloud so engineers can find the root **FASTEST MEAN TIME TO RESOLUTION** cause and solve the issue in minutes, not days. Over 150 state changes are captured for each device every few secs. When every patient and caregiver experience matters, **FEWEST TICKETS EVER EXPERIENCED** visibility and action need to be at the user and device level. With AI, allow the network to work for YOU. Stop chasing ghosts, bugging clinicians to recreate issues, **EASIEST NETWORK TO OPERATE** and let AI proactively resolve issues before anyone notices. Dynamic PCAPs help eliminate most onsite visits. Cloud-ready APs and switches have ZTP capabilities, and **FASTEST DEPLOYMENT EVER EXPERIENCED** once connected, will phone home to the Mist cloud and will automatically be configured. Cloud is the future for modern healthcare delivery. **GREATEST PLATFORM FOR INNOVATION** Controller-based architectures are aging, and a cloud-driven architecture has the agility to keep up.

