

# Juniper Networks and AiRISTA: Al-Native Networking and RTLS for Healthcare Innovation

Transforming healthcare operations with Al-native networking and precise real-time location services

Discover how the Mist platform and AiRISTA deliver healthcare outcomes using tracking devices and location insights

Learn more →

### The challenge/opportunity

# Improving hospital efficiency with RTLS-driven clinical workflow automation

Given the rapid pace of digital transformation, managing medical assets, ensuring staff and patient safety, and maintaining seamless connectivity are only growing more complex. Many hospitals struggle to optimize the flow of people and assets, leading to inefficiencies, higher costs, and inhibiting their ability to focus on patient care.

With Mist, Juniper's Al-native networking platform, and AiRISTA, hospitals can leverage their existing Juniper network—no additional overlay needed. AiRISTA's RTLS integrates with the Mist platform to enable real-time tracking, improved workflows, and enhanced patient safety, helping medical teams focus on quality care.

# The capabilities you need

# Enhance patient safety and operational efficiency

Gain real-time visibility, automate workflows, and deploy flexibly to enhance efficiency, security, and patient care.

# Real-time data visibility

Track people and assets instantly to improve efficiency, reduce search times, and enhance hospital operations.

## Automated workflow optimization

Trigger alerts and actions based on real-time data to streamline processes and improve patient care.

# Flexible deployment options

Choose cloud or on-premise AiRISTA deployment for scalability, security, and seamless integration with existing systems.

## Adaptive healthcare audits

Audit staff presence, activities, and compliance quickly and flexibly, and ensure staff efficiency and accountability.



### The answer: Mist for AiRISTA

# Transform location data into automated workflows

Juniper and AiRISTA deliver a joint solution designed for healthcare environments, offering Al-native network insights and real-time location tracking. Juniper's Mist platform ensures optimal wireless performance with automated troubleshooting while AiRISTA's RTLS provides precise asset, patient, and staff tracking. This powerful combination enhances hospital efficiency, reduces downtime, and improves patient outcomes.

### How it works

# **Smarter healthcare operations**

Leverage AI and RTLS to improve hospital workflows, patient care, and asset management.

Optimize asset utilization

Reduce lost or misplaced equipment with real-time alerting and ensure clinical staff can find the necessary equipment in seconds.

Enhance staff safety

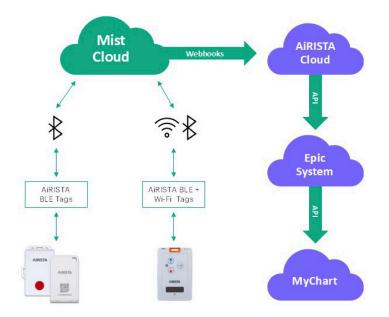
Protect hospital staff with easy-to-trigger duress tags that notify nearby staff and security responders to the exact location of an event.

Improve patient and family experiences

Identify hospital staff, physicians' roles in real-time to patients and family guests.

Monitor hygiene compliance in real time

Track and ensure hand hygiene compliance with automated monitoring for improved safety and efficiency.







# Prevent loss events with temp monitoring

Avoid costly loss events by monitoring temperature in real time for sensitive medical supplies.

# Core features/capabilities

Low-code integration	Simplified integration with existing systems  Fast integration with hospital IT systems reduces development time and minimizes deployment disruptions.
Prebuilt connectors	Easy connectivity to key systems  Quickly connect to EHRs, CMMS, and nurse call systems with minimal IT effort.
Customizable workflows	Tailored to your organization's needs  Configure workflows for specific hospital tasks such as discharge optimization with tracking, alerts, and more.
Role-based access	Personalized dashboards for every role  Leverage dashboards customized for each user role, ensuring relevant insights with minimal complexity.
Scalable architecture	Adaptable to future growth  Modular system supports growth and evolving needs without disrupting current workflows.
Broad tag portfolio	Flexible RTLS tags for all needs  Choose from Wi-Fi and BLE tags to suit various asset and personnel tracking needs.



### Solution capabilities

Juniper delivers Mist, the industry's first AI-native networking platform, for better operator and end user experiences with the most comprehensive AIOps across the entire network. The Mist platform's cloud is integral to our AI-native Mist platform. In this solution, all wireless deployment, operational, and management functions are handled via the Mist cloud, which delivers the following Wi-Fi and virtual Bluetooth LE services:



# Wi-Fi Assurance

Delivers user service levels, anomaly detection, dynamic packet capture, automated event correlation, custom policy configuration, guest WLAN access, and more



# Marvis® Al Assistant

Provides natural language queries with integrated helpdesk for rapid and simple root cause determination and issue resolution while realizing the self-driving network with its Marvis Actions framework



# User engagement

Push high-accuracy, real-time, location-based proximity or wayfinding notifications to engage users, turn-by-turn directions, or custom contextual proximity notifications



# Asset visibility

Finds high-value resources such as shipping pallets, wheelchairs, security personnel, and more with real-time intelligence from Mist's Wi-Fi and BLE infrastructure



# Juniper access points

Leverage enterprise-grade access points to work in conjunction with Juniper Mist cloud and Marvis® AI to deliver premium wireless Wi-Fi, BLE, and IoT access capabilities



# Wired Assurance and switching

Enable AI-native automation at the switch access layer to continually optimize users' experiences, shorten mean time to repair, and improve connected device visibility

AiRISTA provides industry-leading RTLS solutions for real-time tracking of assets, patients, and staff. Utilizing advanced location intelligence, AiRISTA enhances operational efficiency, safety, and compliance in healthcare environments.

AiRISTA offers two methods for integrating personal, asset, or environmental tags with the HPE Juniper Networking wireless infrastructure to enable real-time location tracking and intelligent automation.

In the first method, AiRISTA tags communicate with HPE Juniper Networking APs using BLE or Wi-Fi protocols. Data is transmitted through the wireless infrastructure, either directly via HPE Juniper Networking APs or in combination with BT11 Bluetooth beacons. A secure WebSocket connection links the HPE Juniper Networking Mist platform to AiRISTA's Sofia platform, which receives either X/Y location coordinates from Mist, or raw RSSI signal values for location calculation.

This integration enables organizations to visualize the real-time location of all AiRISTA tags. Within the Sofia platform, users can define rules and apply context-aware logic to trigger alerts, automate workflows, and generate actionable analytics.

In the second method, AiRISTA Wi-Fi tags can utilize a proprietary "Blink" protocol to transmit raw RSSI data directly to the Sofia platform via HPE Juniper Networking APs. Location is calculated within Sofia and displayed in real-time on interactive maps.

In addition to location tracking, users can leverage Sofia's rule engine and context-aware logic to drive real-time alerts, automated workflows, and advanced analytics.

### DEVICES + INFRASTRUCTURE + SOFIA SOFTWARE PLATFORM = AIRISTA'S CUTTING EDGE SOLUTION



FIGURE 1 Mist for AiRISTA solution architecture





Staff RTLS tags	Track the real-time location of staff members for enhanced security and operational efficiency
Patient RTLS tags	Real-time monitoring of patient location to improve care coordination and ensure patient safety
AiRISTA Sofia Platform	Centralized platform for managing staff, patient tags, and assets with seamless integration and visibility
Sofia Platform modules	Modular system for customization, supporting asset tracking, staff alerts, and workflow automation
Staff safety tags	Real-time emergency alerts via staff tags to improve response times and enhance safety

# Why Juniper and AiRISTA?

# Our partnership advantage

At Juniper Networks, we are dedicated to dramatically simplifying network operations and believe that connectivity is not the same as experiencing a great connection. Mist, Juniper's Al-native networking platform, is built from the ground up to leverage Al to deliver exceptional, highly secure, and sustainable user experiences from the edge to the data center and cloud. Additional information can be found at juniper.net or connect with Juniper on X (formerly Twitter), LinkedIn, and Facebook.



Juniper's Mist platform provides the network infrastructure for seamless location tracking, ensuring reliable connectivity. AiRISTA adds intelligence, turning location data into actionable insights. Together, we offer more than just tracking. Our combined solutions optimize workflows, enhance safety, and drive efficiency, giving organizations the power to make informed decisions and improve overall operations.

**Next steps** 

To learn more about the Juniper and AiRISTA solution, please contact your <u>AiRISTA</u> representative or Juniper representative, or visit www.airista.com or www.juniper.net.

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