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

Transforming healthcare operations with AI-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 AI-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.

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The answer: Mist for AiRISTA

Transform location data into automated workflows

Juniper and AiRISTA deliver a joint solution designed for healthcare environments, offering AI-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.

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.

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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.	

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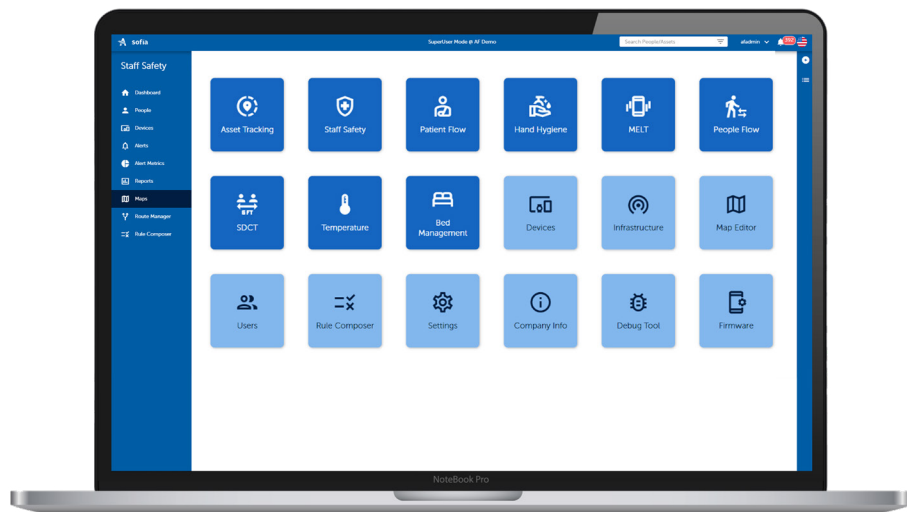
AiRISTA provides industry-leading RTLS solutions for real-time tracking of assets, patients, and staff. Utilizing advanced location intelligence, AiRISTA enhances operational efficiency, safety, and compliance in healthcare environments.

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

FIGURE 1 Mist for AiRISTA solution architecture

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 AI-native networking platform, is built from the ground up to leverage AI 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 AiRISTA representative or Juniper representative, or visit www.airista.com or www.juniper.net.

Take the next step

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See how we help unlock new growth, powered by AI.

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Explore more

Discover how our solutions can help you move forward.

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