

PARTNER SOLUTION OVERVIEW

Aruba & AiRISTA Flow

RTLS For Smart Hospitals

Hospitals and healthcare clinics face challenges when managing high-value assets, improving staff safety, and optimizing clinical workflow. By using wireless Real Time Location System (RTLS) tags affixed to objects or as wearables, healthcare organizations can track the real time location of people and things in the building. This ensures high levels of personnel safety, inventory management, condition monitoring, process and workflow management, and hand hygiene.

RTLS tags can operate over Aruba Wi-Fi networks and are offered in various form factors to support workplace solutions in many industries. According to Gartner, the installed base of healthcare tags will grow at 11% CAGR from 2018 to 2028.

By leveraging existing wireless infrastructure, RTLS solutions can bypass the need to deploy a separate control system. Wireless networks are able to collect tag data and forward them to location platforms, identifying the real-time location of people and things. This allows for more efficient workflows, lowered costs, and safer environments for patients and employees.

Aruba wireless 802.11ac (Wi-Fi 5) and 802.11ax (Wi-Fi 6) access points are the most cost-effective way to deploy RTLS. Aruba has partnered with AiRISTA Flow, a leader in RTLS process improvement solutions, to integrate Aruba APs with AiRISTA Flow RTLS tags. AiRISTA Flow provides a range of sensors that integrate with advanced software platforms to provide location and condition information for people and assets. The joint solution is comprised of Aruba access points, AiRISTA Flow Wi-Fi RTLS tags, and AiRISTA Flow Unified Vision location software.

This joint solution is capable of flexible reporting and analytics, custom interactive dashboards, event replay, what-if scenarios, and trigger points. Together, Aruba and AiRISTA Flow offer the insights needed to strategically manage healthcare businesses.

WHY ARUBA AND AIRISTA FLOW?

- Allows RTLS tags to be deployed in healthcare environments without the need for new cabling or infrastructure
- Form factors for high value physical assets in addition to wearables for locating people
- Flexibility of deployment models, cloud or on-premises
- Certified joint interoperability

HOW IT WORKS

AiRISTA Flow tags are purpose-built sensors for temperature, humidity, and vibration in addition to location, which can be relayed in the packets of the radio signal. Aruba access points receive data from AiRISTA Flow tags which is transferred to the AiRISTA Flow Unified Vision platform.

Using Unified Vision, IT teams can view real time location of all AiRISTA Flow tags and create customizable dashboards to visualize data. Through scripts, models can be built to drive continuous process improvement. Designed to replace outdated, less efficient solutions like spreadsheets and clipboards, this joint solution automates tasks that were previously manual and prone to human error.

The Aruba and AiRISTA Flow joint solution simplifies the end-to-end architecture by eliminating the need for additional hardware to be installed. It also streamlines deployment and support for the end user.

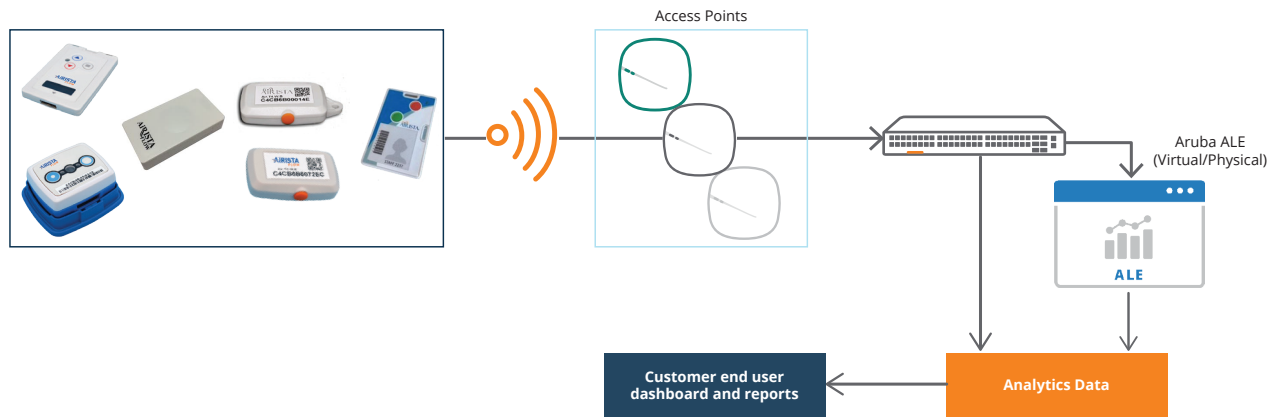


Figure 1: Aruba & AiRISTA Flow joint solution diagram

USE CASES

The Aruba and AiRISTA Flow joint solution allows healthcare providers to facilitate workflows and drive process efficiencies. This solution can be deployed and managed locally or from the cloud and eliminates the need for a separate control system.

By using Aruba APs, the wireless network is scalable and can support businesses as they grow and new use cases are added. Aruba's IoT-ready access points are the ideal network to support business-critical use cases. The joint solution use cases include, but are not limited to: process and workflow management, personnel safety, inventory management, temperature and humidity controls, and hand hygiene reports.

Process and workflow management: Optimize staff workflow to enhance quality of care, staff efficiency, and productivity. Employees can be moved to areas of high need to better respond to high patient volume.

Personnel Safety: Distress alerts can be sent by nurses and staff to call for help when under duress. When an alert is sent, nearby Aruba APs will detect the request for help and use signal strength to quickly pinpoint the location. Hospitality security can then respond directly, creating peace of mind for employees and staff.

Inventory Management: Hospitals can prevent high-value assets from being misplaced or lost while also enabling process improvement and reducing expenses. Instead of simply purchasing more biomedical devices or wasting time finding required biomedical devices, an RTLS solution can address both. Quickly finding equipment will enable staff to have extra time to care for patients. Allowing staff to find what they need while having fewer devices available will directly benefit the bottom line by reducing cost. Real time asset location data can be found in an easy-access dashboard with direct access to maps and biomedical device status.

Condition monitoring: Analyze real-time temperature and humidity levels that can be queried by name or in groups. This helps ensure that medications are stored at required conditions. This system does not require the cost of additional "exciters" or "chokepoints" because it leverages the existing Aruba APs.

Hand Hygiene: Measure hand washing compliance and generate rates per caregiver to determine if interventions are needed. This lowers possible infection rates and ensures employees are maintaining hand hygiene compliance protocols. The solution also captures data that could be requested during an audit.



CERTIFIED INTEROPERABILITY

We've taken the guesswork out of deploying joint solutions by certifying the interoperability of AiRISTA Flow RTLS tags. Set-up is quick and easy. Just select "AiRISTA Flow" from a drop-down menu on the access point configuration page, select the IP address of the software, and you're done. Joint deployments go in faster and maintenance of the complete solution is simplified.

SUMMARY

Aruba and AiRISTA Flow have partnered to provide enterprise-wide visibility leveraging existing Aruba wireless infrastructure without the need for additional hardware. Aruba wireless infrastructure that's installed for healthcare customers can double as a staff, patient, and asset tracking system. The joint solution is a powerful way to optimize clinical workflows and improve patient outcomes.

To learn more about Aruba wireless, please visit: arubanetworks.com/networking/access-points

DEPEND ON AiRISTA Flow



AiRISTA Flow is a leading provider of Wi-Fi-based real time location, process improvement, and hand hygiene solutions. They are currently based in Maryland, USA.

<https://www.airistaflow.com> 913 Ridgebrook Rd., Suite 110 Sparks, MD 21152, Ph: 1-844-816-7127



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