



Juniper and KODE Labs Combine BLE and AI Driven Insights with the KODE IoT Platform to Create Efficient and Cost Saving Experiences for Real Estate Tenants and Owners

Automate building system operations and create an amazing experience for everyone working, living or playing in a building using the Juniper converged Wi-Fi/BLE/IoT Access Points, driven by Mist AI, integrated with the KODE Platform together.

CHALLENGE

Real estate owners struggle to manage the various building systems across their portfolio that are mostly local-access only and don't provide the necessary data to optimize them. Building systems are mostly local-access only and don't provide the integrated, real time data necessary for optimal experience.

Furthermore, they spend a tremendous amount of time and money on building integration of their spaces in addition to installing WI-FI only to have their building systems fragmented without ability for systems to speak to each other adding to the operational inefficiency.

SOLUTION

Mist and KODE Labs have partnered to deliver an automated solution that enables integration of the Juniper Mist microservices cloud platform, that orchestrates the Juniper Access Points, with the Building Management Systems and IoT platform allowing for data sharing that provide a unique, next-level comfort and operational efficiencies.

Benefits

Mist's technology provides high accuracy real time occupancy data to the KODE Platform that enables the ability to automatically adjust temperatures and other building systems for optimal comfort and operational efficiency such as use of energy.

Through API integration between KODE Labs and the Juniper Mist cloud, real time data capabilities can automatically trigger KODE Labs to take a corrective action without changing platforms, and all without manual intervention.

Building engineering and management face a constant battle: manage the old while deploying and upgrading building systems and adding sensors and other technology to provide real time data on occupancy, temperatures, lighting etc.

While Juniper modernizes the wireless infrastructure with Mist AI, KODE Labs modernizes the building systems making for a unique partnership with one of a kind ability to provide all-encompassing solutions that both provide an amazing experience while saving in operational costs.

The Challenge

Real estate operations teams rely on paper standards and largely manual implementation for system configuration change and various Create, Read, Write, Update, and Delete procedures. Without an automated approach, manual configuration changes and procedures often result in errors that have an impact on occupants, building systems, and equipment. Often the impact goes unnoticed until an occupant complains or a specific piece of equipment stops working. Next a lengthy, siloed, costly and mostly manual troubleshooting effort occurs searching for a needle in the haystack, all of which could be avoided with the KODE Platform.



The Mist-KODE Labs Solution

Juniper, a leader in artificial intelligence (AI)-driven networking with its Mist AI technology, and KODE Labs, a leading provider of intelligent building technology, have partnered to deliver an integrated solution to enhance the experience of all real estate occupants.

The combined Mist- KODE Labs solution delivers integration to execute automated building system changes via cloud-based solutions that make for a unique, one of a kind experience in a building.

Features and Benefits

The integration of the AI-driven networking and BLE technology from Mist and intelligent smart building platform from KODE Labs delivers:

- Enhanced occupant experience through automated actions to adjust building systems
- Elimination of manual steps to identify, and implement building system configuration changes
- Minimize or eliminate operational costs by adjusting systems based on need vs set schedules thus saving in energy and manual work

Solution Components

The Mist solution includes the following components:

Mist cloud: 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:** Includes user service levels, anomaly detection, automated event correlation for troubleshooting, dynamic packet capture, policy configuration, guest WLAN access, and more
- **Marvis Virtual Network Assistant:** Provides natural language queries with integrated help desk functionality for rapid and simple root cause determination and problem resolution while realizing the self-driving network with its Marvis Actions framework
- **Mobile User Engagement:** Delivers location-based information to mobile users, such as turn-by-turn directions and proximity-based push notifications
- **Asset Location:** Finds high-value resources such as shipping pallets, wheelchairs, security personnel, etc.
- **Juniper Access Points, driven by Mist AI,** are deployed on premises for Wi-Fi, BLE, and/or IoT access.

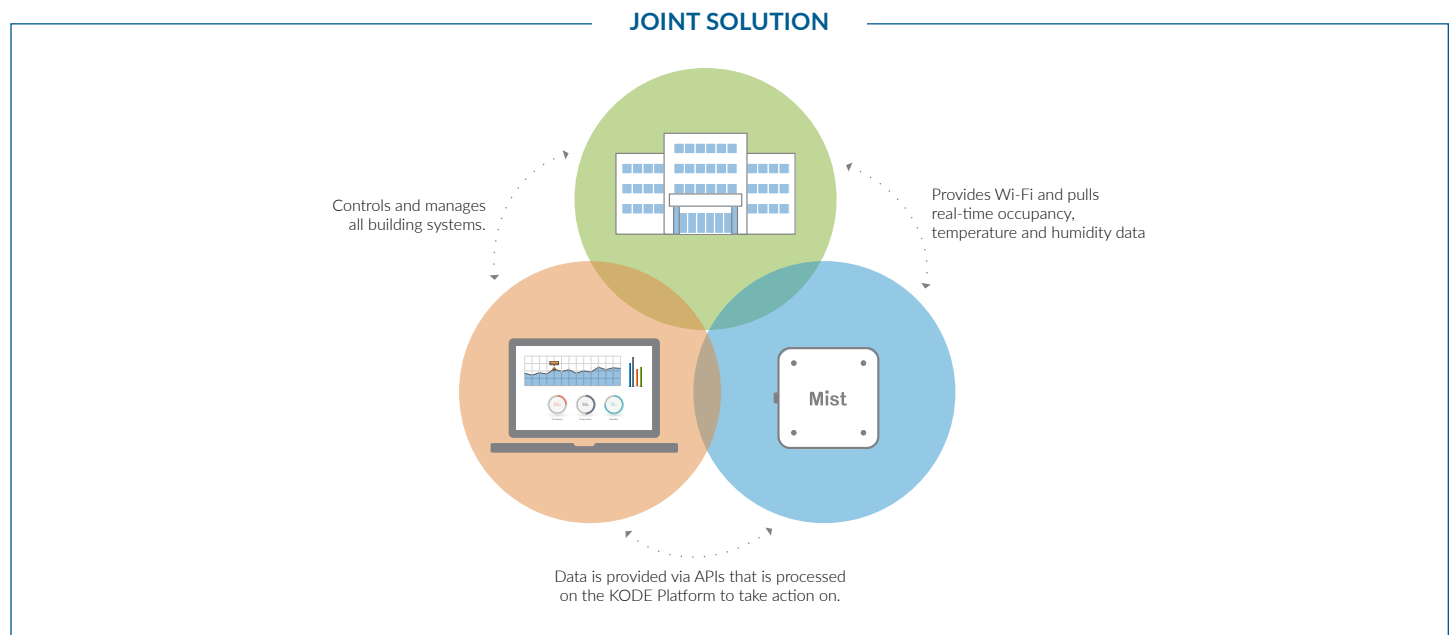
The KODE Labs solution components include:

KODE Platform: A data focused, vendor-agnostic building IoT platform integrating all building systems into a single pane of glass providing actionable data while saving operational costs.

- **Building Management System:** Includes all core building systems; HVAC, Lighting, Fire Systems etc.
- **Energy Management:** Real time management of utilities with actionable analytics.
- **Functional Testing Tool:** Ability to automatically and remotely commission, test and grade all equipment based on real operational data thus saving in maintenance expenses via preventative maintenance based on real time data.

Mist's ability to provide data on occupancy, asset tracking, temperatures and humidity will enable KODE Labs to adjust building systems to provide an optimal experience for the people living, working and playing in various real estate spaces.

IT and building engineers operate in siloes from one another and this is one way to bring them together for a common good. IT gets their next generation network via Mist while providing the data building engineers need to operate their buildings efficiently via real time data and analytics that the KODE Labs platform provides.



Summary

Combine BLE and AI-Driven Wireless from Mist with Intelligent Building Technology from KODE Labs to Elevate Occupant Experience

Real estate owners and operators rely on antiquated systems and fragmented solutions to operate their buildings. Building engineers provide the “glue” that makes all building systems, old and new, operate. As more data is needed to be able to operate buildings efficiently while providing an amazing experience for its occupants, the need for a fully integrated solution that brings real time data together and actionable analytics continues to grow. Enterprises constantly spend money on network equipment that serves one purpose. Mist changes that by providing real time, operational data via its network equipment thus removing the need to purchase extra sensors and systems to receive this data. Leveraging the KODE Labs intelligent building platform enables building owners and operators to integrate with 3rd party systems like Mist to perform API driven changes based on real time data. This integration will minimize configuration and troubleshooting time resulting in significantly less operational costs and an incredible overall experience.

Next Steps

To learn more about the joint Mist-KODE Labs solution, please contact your KODE Labs or Mist representative, or visit kodelabs.com and mist.com.

About Mist

Mist built the first AI-driven Wireless LAN (WLAN), which makes Wi-Fi predictable, reliable, and measurable and enables scalable indoor location services like wayfinding, proximity messaging and asset visibility. In addition, Mist’s AI technology plays a key role in bringing automation and insight across the full IT stack, delivering seamless end-to-end user experiences and substantial IT cost savings. In 2019, Mist was acquired by Juniper Networks and operates as a business unit focused on the AI-Driven Enterprise which combines Mist’s next-generation Wireless LAN (WLAN) platform with Juniper’s best-in-class wired LAN, SD-WAN and security solutions to deliver unsurpassed end-to-end user and IT experiences.

For more information, visit mist.com.

About KODE Labs

KODE Labs is a data driven, vendor-agnostic smart building IoT company that provides a single pane of glass to manage all building systems in real time via actionable analytics. Its software enables digital workplace transformation for building management teams, increasing productivity, reducing building implementation costs and building operational costs while providing the most optimum occupant experience.