

Juniper Networks and Hamina: Smarter Wi-Fi from Planning to Performance

Design, deliver, and maintain high-performance, AI-powered wireless with Juniper and Hamina

Discover how to simplify live network visibility, troubleshooting, stunning 3D network planning, and more

[Check out videos on the Hamina-Juniper integration →](#)

The challenge/opportunity

Get real-time visibility into your Wi-Fi

Network teams struggle with fragmented tools for design, deployment, and troubleshooting. Hamina's integration with Juniper bridges these gaps with seamless workflows for the complete network life cycle management—from predictive network design, deployment, and on-site validation to remote live network analysis and troubleshooting. This joint solution empowers teams to optimize performance and reduce deployment time.

The capabilities you need

Tools for frictionless Wi-Fi life cycle management

Streamline network design, deployment, and troubleshooting with Hamina and Juniper Mist's integrated platform.

● Real-time visibility into your network

See real-time heatmaps and metrics of any network. Watch clients moving on the map and witness roams as they happen. Inspect all key live metrics of clients, access points (APs), and switches. See something you want to dig into? Just click a button to jump to the Juniper UI—you can inspect further, or download the packet capture, right there.

● 3D network planning and instant, automatic network deployment to Mist

Design robust, high-performance wireless and wired networks and deploy the site directly from Hamina into Mist™. You can design everything from offices to warehouses to stadiums—all in 3D with beautiful heatmaps. Plan the optimal placements and configurations for your APs, necessary switches, and even cabling.

● Site survey validation and network refresh

Use the Hamina Onsite app, paired with the Oscium Nomad measurement hardware, to perform Wi-Fi network site surveys to validate and instantly troubleshoot your network. Hamina will use the real-life survey data for an accurate attenuation model, allowing you to instantly plan a network refresh without the need to draw walls or objects.

The answer: Juniper Mist with Hamina

Streamlined Wi-Fi planning and live network visibility

Modern, cloud-based networking solutions not only provide reliable and robust connectivity, they also make network management more efficient and streamlined throughout the network life cycle—from design to deployment, validation, and monitoring.

The line between the network infrastructure and Wi-Fi tools for building the network is blurring due to API-based integrations, creating opportunities for improved visibility and efficiencies in network deployments and management.

The deep integration between Juniper Mist and Hamina is redefining network planning, deployment and troubleshooting workflows for maximum efficiency.

The integration enables real-time remote network visualization and troubleshooting through live heatmaps and digital twins, stunning and ultra-quick 3D planning, automated network deployment, and effortless validation through on-site and remote surveys for Juniper Mist cloud-based wireless networks.

How it works

Wi-Fi planning, deployment, validation, troubleshooting, and monitoring

Use the Hamina Network Planner Plus/Juniper integration to get an instant, easy-to-understand, and accurate snapshot of the key network heatmaps.

Advanced Juniper Mist network design in 3D

All Juniper Mist access points and antennas are accurately 3D modelled into Hamina's browser-based, ultra-fast, and easy-to-use network planner. The advanced 3D modeling capabilities allow you to visualize walls, objects, and AP heights, create multi-floor designs, and see signals bleeding between floors. You can also model auditoriums or stadiums using slopes and raised floors, as well as add cable trays and risers, with Hamina Network Planner Plus.

Hamina Network Planner also includes automated planning features that significantly speed up the network planning process. You can now drop a floorplan into Hamina Network Planner, and it will automatically set the scale, define the scope zone, and draw the walls from flat images (JPEG/PNG). Just pick your favorite AP and start designing in seconds.



Live heatmaps and visual client troubleshooting

Use the Hamina Network Planner Plus/Juniper integration to remotely analyze and troubleshoot your Juniper Mist network. Get an instant, easy-to-understand, and accurate snapshot of the key network heatmaps, including signal, interference, Wi-Fi, and non-Wi-Fi utilization, as well as others.

With Hamina Live (part of Planner Plus), you can troubleshoot any client device in real time to:

- See real-time signal strength, data rates, and ping. Watch clients move around the floor plan and see roams as they happen
- Investigate in-depth details such as packet retry rates
- Track client location live throughout the troubleshooting process
- Download the packets captures for further analysis

Instant, automatic network deployment to Mist

Deploy the site directly from Hamina. Floor plans, AP locations, and even APs commissioned to the site from inventory are all included. This even works for creating new sites directly from Hamina. APs can be commissioned automatically or by manually selecting the APs in Hamina you wish to use. We'll bring your inventory from Juniper's dashboard and allow you to see how many of each AP type you have so you don't try to deploy what you don't have.

Site survey validation and network refresh

Use the Hamina Onsite app, paired with the Oscium Nomad, to perform Wi-Fi network site surveys to validate and troubleshoot your network.

Walk the site to capture an accurate picture of real-life network coverage, interference, utilization, and more. Your survey data will then be synced to the cloud and available in Hamina Network Planner Plus for simulating network changes based on the measured data.

After a site survey walkthrough, use Hamina Network Planner Plus to plan a complete network refresh with Juniper Mist gear. No wall drawing needed—the site survey data gives Hamina an understanding of the signal environment.



www.juniper.net | www.hamina.com

Core features/capabilities



Real-time heatmaps **Live, API-driven heatmaps**

Using live data via APIs, we can show you what your network is doing. Not just in a table but live on your floor plan.

Live troubleshooting **Live, API-driven client troubleshooting through digital twin**

Watch clients traverse your space, witness their roams, and download a packet capture for further analysis.

Instant, super easy 3D network planning **Design robust Wi-Fi networks in minutes**

Drag and drop a floor plan of any type (even a photo of a fire escape plan!) into Hamina. Hamina's AI-driven Wi-Fi designer turns the floor plan into a robust 3D network plan with a couple of clicks, including wireless heatmaps, switching, PoE, etc.

Comprehensive, easy, reliable site surveys **The most reliable Wi-Fi site surveys**

Perform on-site survey validations of any network to find all APs and see measured heatmaps of coverage and network performance.

Client view **Digital twin-based client experience analysis**

When planning a network, use a digital twin to predict the experience of different Wi-Fi devices around the site. With live networks, see the digital twin of any user and see their experience and find connectivity problems quickly and visually.

Super-fast reporting and BoM creation **Create amazing report documents and dynamic browser-based reports**

Design the network in minutes, then in a few more seconds, create mind-blowing reports using our template-based, configurable reporting system. Create documents, and/or send the customer a link that allows experiencing the network on the customers' web browser.

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 microservices cloud is integral to the Mist AI-native platform. In this solution, all wireless deployment, operational, and management functions are handled via the Mist microservices 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 the 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 APs

Leverage enterprise-grade APs to work in conjunction with the Mist microservices 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

Rapidly visualize, design, deploy, and manage any Juniper Wi-Fi network throughout its lifecycle, from planning to ongoing management.

Hamina Network Planner Plus

- Live heatmaps and digital twin-based troubleshooting of any Juniper Wi-Fi network
- Rapid design of robust Wi-Fi networks in 3D
- Design private 5G and IoT wireless (Zigbee, Bluetooth, EnOcean, Ultra-Wideband)
- Cabling and switching design
- Create advanced 3D models with raised and sloped floors
- Simulate the effects of diffraction and refraction with Fast Ray Tracing
- Simulate single-hop mesh links, including link RSSI and SNR
- Import survey results from NetAlly Link-Live

Hamina Onsite

- Sold in combination with Oscium Nomad hardware
- Perform Site Survey Wi-Fi in 2.4, 5, and 6 GHz
- Real-time Wi-Fi troubleshooting
- Create Hamina projects and upload maps
- Add notes and pictures to Hamina projects
- Share projects with other Hamina users

Oscium Nomad Site Survey Hardware Devices

- Sold in combination with Hamina Onsite
 - Four Wi-Fi 6E adapters with two spatial streams each
 - Built-in battery with up to four hours of survey time
 - USB-C Power Delivery charging port
 - USB-C data port, plus USB-A port for spectrum analyzer expansion
 - 14 cm x 12.5 cm x 3.5 cm (5.5" x 5" x 1.4"), 415 grams (14.75 oz)
 - Requires Lightning to USB Camera Adapter for iPhones/iPads with Lightning
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Live Analysis of Juniper in Hamina

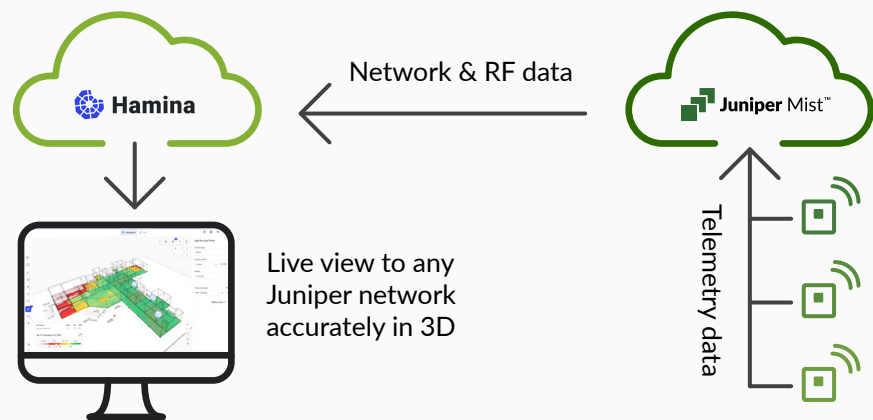


FIGURE 1 Live analysis of Juniper in Hamina

Why Juniper and Hamina?

Full visibility and rapid design of Juniper Wi-Fi

At Juniper Networks, we are dedicated to dramatically simplifying network operations and Juniper believes 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](#).

Hamina's AI-driven network design and visibility tools are highly integrated with Juniper. From 3D network design to site surveys to live network analysis and troubleshooting, Hamina is the industry leader for easy to use, but highly scientific, networking tools.

Next steps

To learn more about the Juniper Mist and Hamina solution, please contact your [Hamina](#) or [Juniper Mist representative](#), or visit <https://www.hamina.com/juniper>.

Take the next step

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

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Discover how our solutions can help you move forward.

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