

TACKLE NET ZERO GOALS WITH AI-POWERED SAAS

Take control of your building and facilities and reduce utility costs, improve operational efficiency, and decrease carbon emissions.

Challenge

High energy prices, wasted energy, and increasing operating expenses caused by lack of visibility, fragmented data, lack of communications, ineffective manual operations, and regulatory demands to reduce carbon footprints

Solution

Faradai Platform, integrated with Juniper solutions, driven by Mist AI, provides visibility throughout buildings and facilities so that facility managers have awareness via normalized comparisons, actionable insights, and alerts

Benefits

By taking control of their infrastructure, facility managers and property owners can reduce energy and other utility costs, decrease operational costs, lower their carbon footprints, and dramatically improve overall efficiency to contribute to a sustainable world

The Challenge

Fashion retailers, banks with many branches, gas stations, property managers, and others often manage a portfolio of properties located in different regions and sometimes different parts of the world. Regulating heating, water, and power usage manually is prone to errors, which causes delays in fixing water leaks and inconsistent usage. Heat and lights, for example, can be turned on even when no one is enjoying them.

Lack of data connectivity and visibility across buildings causes delayed and insufficient reporting for facility managers. The result is a lack of awareness at both the local users' level and the management level that prevents timely corrective actions. Without the necessary visibility, property and building owners experience excessive consumption of resources, increased energy costs, and larger carbon footprints.

The Juniper Mist-Faradai Solution

Combining Juniper® solutions, powered by Mist™ AI, with the Faradai SaaS solution automates data access over a unified single platform. Facility managers gain overall visibility and awareness created through gamification. Inefficient manual operations are eliminated, and excess energy consumptions and anomalies of critical infrastructure are identified immediately and quickly sorted out.

Features and Benefits

Juniper solutions, driven by Mist AI, provide the networking and communications infrastructure, generate occupancy analytics on spatial and temporal domains, and make the data available via cloud API. Faradai provides the SaaS software solution that includes Energy and Sustain platforms. For services, organizations can work with channel partners (system integrators, value-added resellers, and other partners) to resell the combined offering as a turnkey solution and add value by providing support and services such as facility management, energy consultancy, and ESG consultancy.

The combined solution offers:

- IoT connectivity, legacy systems integrations, and automating data retrieval, enables 360-degree visibility across an organization's portfolio of buildings and facilities. Data is no longer siloed and teams are able to communicate better.
- Dashboards, fully customizable to different personas via easily configurable widgets, ensure that each user has access to relevant information for their jobs, locations, and responsibilities.



- AI, machine learning, and data analytics capabilities identify anomalies and excessive consumptions. Property owners gain actionable insights that help them reduce energy and operational costs. Collected data is also useful for accurate forecasts and peer performance benchmarking that raises awareness and enables gamification. Baseline creation is possible using past consumption data and Energy Consumption Performance Profiles. Level-setting usage comparisons is possible based on outside temperatures by location, occupancy, and area in square meters.

AI. They are part of the Juniper AI-Driven Enterprise portfolio and deliver network intelligence and automation across wired, wireless, and wide area networks.

In this joint solution, the following Juniper Mist components are included:

Juniper Mist cloud: All wireless deployment, operational, and management functions are handled via the Juniper Mist cloud, which delivers the following Wi-Fi and virtual Bluetooth LE services:

- Juniper Mist 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.

Solution Components

Faradai helps clients reduce their energy costs and achieve their net zero goals by automating their monitoring and management processes and improving data visibility. Using AI to provide actionable insights, the Energy and Sustain Platforms leverage machine learning algorithms and data analytics techniques to increase energy savings, improve operational efficiency, and reduce carbon footprints. Juniper Mist solutions, driven by Mist AI, offer market-leading wireless services, automation, and

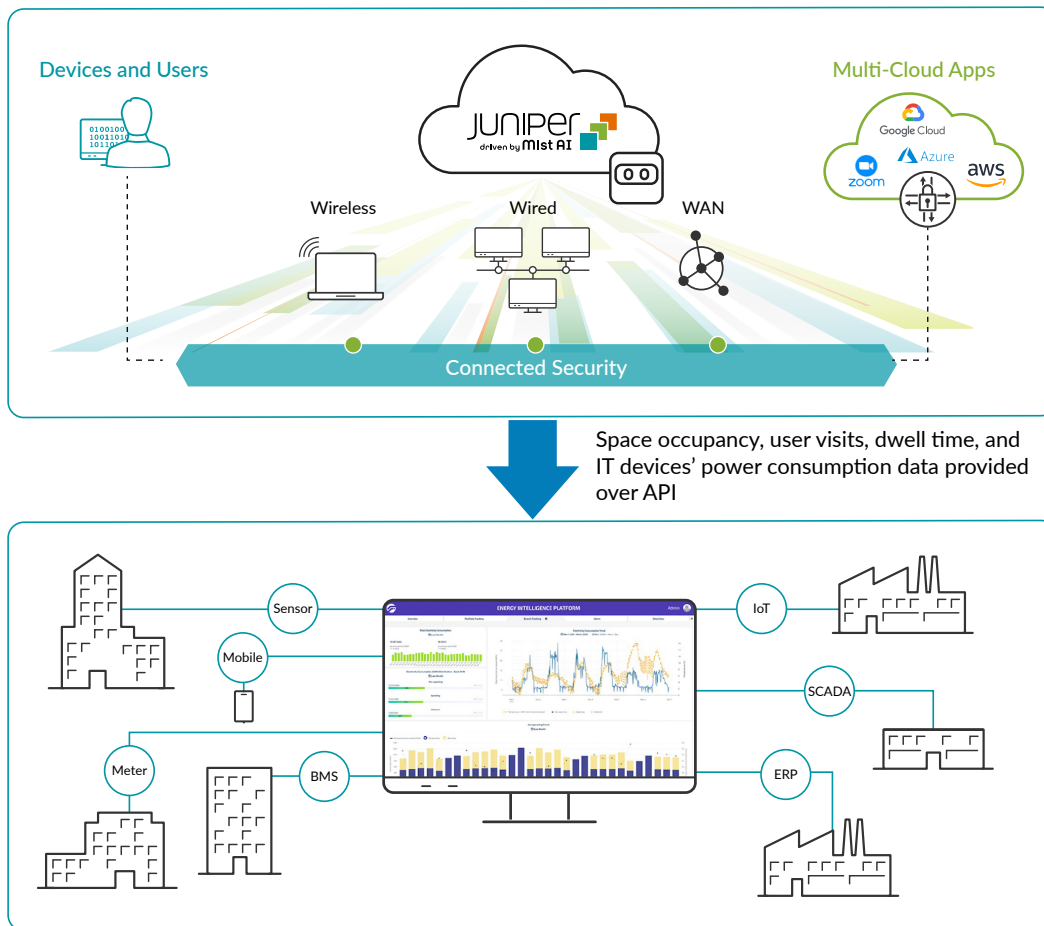


Figure 1: Juniper AI-Driven Enterprise portfolio with Location Services and Faradai platform provide end-to-end data analytics with data-driven insights to optimize energy consumption.

- Juniper Mist User Engagement pushes location-based information to mobile users, such as turn-by-turn directions and proximity notifications.
- Juniper Asset Visibility finds high-value resources such as shipping pallets, wheelchairs, security personnel, etc.
- Juniper High-Performance Access Points support Wi-Fi, BLE, and/or IoT access.

The Faradai solution includes the following components:

- Faradai Energy (intelligence) Platform with IoT and legacy systems integrations
- Faradai Carbon (intelligence) Platform
- Customer services (technical and consultancy managed services mostly through Faradai partners)

Summary

With a scalable SaaS platform, AI, analytics, and a robust Wi-Fi network, Faradai and Juniper provide end-to-end data analytics across the energy value chain, from generation to consumption. Organizations can track the real-time condition of their energy assets, monitor energy performance at facilities and obtain data driven notifications. With smarter, more intelligent building management, companies can reduce operational costs, become more efficient and contribute to creating a more sustainable world.

About Juniper Networks

At Juniper Networks, we are dedicated to dramatically simplifying network operations and driving superior experiences for end users. Our solutions deliver industry-leading insight, automation, security and AI to drive real business results. We believe that powering connections will bring us closer together while empowering us all to solve the world's greatest challenges of well-being, sustainability and equality.

About Faradai

Faradai has developed Faradai Energy and Faradai Sustain (as SaaS) Platforms providing our large enterprise customers improved energy efficiency, carbon accounting and sustainability management, goal setting, tracking, and reporting capabilities.

Customers can take control of and reduce their energy and other utility consumptions, reduce their overall costs, decrease their carbon footprint, and improve their operational efficiency, to contribute to a better, more sustainable world.



Driven by
Experience™

APAC and EMEA Headquarters
Juniper Networks International B.V.
Boeing Avenue 240
1119 PZ Schiphol-Rijk
Amsterdam, The Netherlands
Phone: +31.207.125.700
Fax: +31.207.125.701

Corporate and Sales Headquarters
Juniper Networks, Inc.
1133 Innovation Way
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or +1.408.745.2000 | Fax: +1.408.745.2100
www.juniper.net

Copyright 2023 Juniper Networks, Inc. All rights reserved. Juniper Networks, the Juniper Networks logo, Juniper, Junos, and other trademarks are registered trademarks of Juniper Networks, Inc. and/or its affiliates in the United States and other countries. Other names may be trademarks of their respective owners. Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.