



# The road map to AI-native Wi-Fi

Buckle up. The journey to AI-native Wi-Fi starts now.



AI-native Wi-Fi is not a feature upgrade. It is a structural shift in how networks are designed, operated, and scaled.

Use this road map to help navigate from traditional wireless to self-driving infrastructure.

## When your Wi-Fi hits roadblocks

### What is breaking down

- Wi-Fi demand is growing faster than traditional networks can scale
- Manual operations and siloed tools limit 24x7 visibility and automated resolution
- Aging switching infrastructure cannot support modern AI-driven performance

### The result

- Inconsistent user experiences
- Networks that cannot keep pace with AI-driven workloads
- Higher OpEx and more truck rolls

### Where AIOps delivers real value

- Faster deployments with fewer errors
- Continuous, proactive performance optimization
- Troubleshooting that shifts from reactive to predictive

### From legacy to AI-native

- Centralized, cloud-native management across distributed environments
- Built-in intelligence that learns, predicts, and optimizes continuously
- Self-driving automation that reduces manual effort and optimizes the network in real time

## A new direction for network operations

### Start the drive toward smarter Wi-Fi

#### Stop 1

##### Build the right foundation:

Set your network up for AI from day one

- Upgrade to Wi-Fi 7 and 6 GHz to enable greater capacity and performance
- Modernize switching to support multi-gig speeds and high-density environments
- Design for scale, low latency, and built-in security

#### Stop 3

##### Let AI do the heavy lifting:

- Turn data into automatic optimization
- Activate always-on agentic AI to analyze network telemetry in real time
- Enable automated fixes for common issues
- Allow the network to continuously tune performance using real-time insights
- Offload routine tasks so IT can focus on higher-value work

#### Stop 5

##### Grow without growing your workload:

Scale smarter, not harder

- Extend your AI-native architecture across campuses, branches, and remote sites
- Replicate policies, security, and performance standards automatically everywhere
- Standardize operations through automation as you expand

#### Stop 2

##### Roll out at cloud speed:

Bring sites online faster with centralized control

- Turn on zero-touch provisioning to onboard new sites automatically
- Manage wired, wireless, and edge infrastructure from one cloud platform
- Set policies once and push them everywhere

#### Stop 4

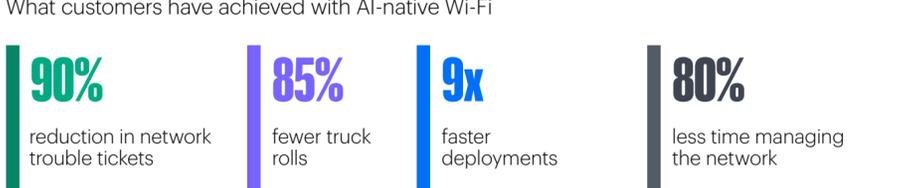
##### Fix problems before users feel them:

Move from reactive to proactive

- Empower AI to monitor network health and user experience continuously
- Let intelligent analytics detect anomalies and pinpoint root causes automatically
- Trigger automated remediation to prevent tickets and escalations

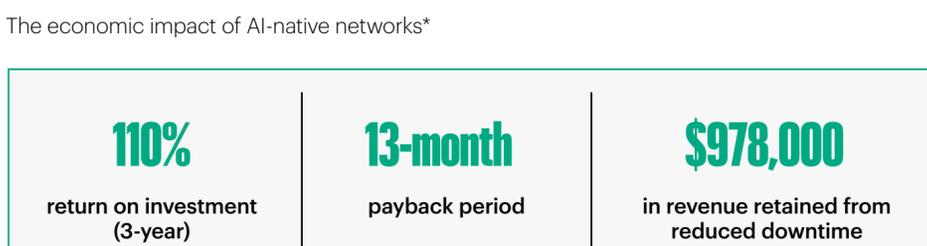
## Real-world results from the fast lane

What customers have achieved with AI-native Wi-Fi



## Measuring the impact of taking smarter route

The economic impact of AI-native networks\*



\* Forrester Consulting TEI Study, The Total Economic Impact™ of Juniper Mist Wired And Wireless Access, commissioned by Hewlett Packard Enterprise (3-year composite organization), January 2025.



### Your journey to self-driving Wi-Fi starts here

AI-native Wi-Fi is not just about faster speeds. It is about intelligence, automation, and operational simplicity that lets IT teams deliver exceptional wireless experiences at scale.

Explore how AI-native Wi-Fi transforms network operations from day zero to day 2.

Learn more at [HPE.com/networking](https://hpe.com/networking)

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