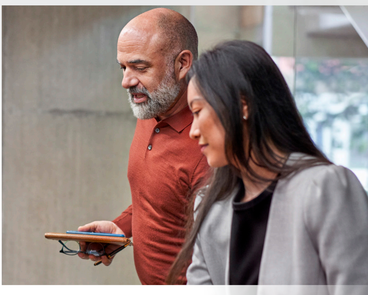
HPE Juniper networking



Modernizing the Network for the AI Era

How to engineer your routing infrastructure to be an AI leader

More than 75% of enterprises have invested in AI and are making it a business priority. To find out how AI adoption is reshaping enterprise networks requirements, HPE and Omdia surveyed 314 enterprise leaders. Among the respondents, 40% work in corporate management and the office of the CIO/CTO, and all the surveyed companies are located in North America or Europe and have more than 1,000 employees. Explore this infographic to discover how best performing companies are planning to transform their networks to lead the AI era.

Tomorrow's leaders will be AI-native

Research shows that with AI:

60% to 70%
of work activities can be automated[1]

$2.6T to $4.4T
of value can be created[1]

60% to 90%
of level 1 resolution times can be reduced[1]

How will AI impact IT and network investments?

The AI Era is here, and it is transforming IT and networks. Based on survey results, AI is already driving changes to applications, hosting environments, network traffic, and routing infrastructures. To succeed with your AI transformation, consider these four critical findings.

1 Adoption rates and goals by industry

Finance — 98%
Goals:
- Automation and productivity
- Improve customer experiences

Transport and logistics — 82%
Goals:
- Data-driven decision-making
- Automation and productivity

Manufacturing — 82%
Goals:
- Automation and productivity
- Data-driven decision-making

Healthcare — 74%
Goals:
- Automation and productivity
- Reduce costs

Utilities — 72%
Goals:
- Data-driven decision-making
- Automation and productivity

Research and education — 56%
Goals:
- Automation and productivity
- Data-driven decision-making

Public sector — 98%
Goals:
- Reduce costs
- Improve customer experiences

Energy — 44%
Goals:
- Data-driven decision-making
- Automation and productivity

2 AI Agent training and customizations will need different hosting models

91%
of enterprises that have invested in AI, train or customize their AI models.

Agentic AI is often embedded in third-party platforms

Predictive AI and **AIOps** frequently run on private (dedicated and multi-tenant) platforms

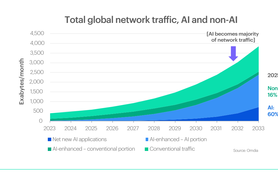
Generative AI is the only model often hosted on fully public platforms

Generative AI, **Agentic AI**, and **AI analytics** all are often hosted in customized public platforms

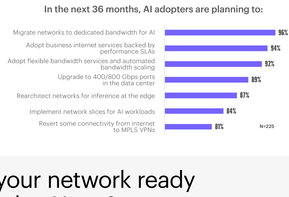
AI analytics are often hosted on dedicated private platforms

3 AI-related traffic will become the majority of network traffic

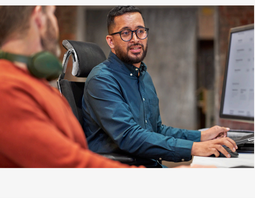
The combination of new AI applications and AI-enhanced traffic will surpass **50%** of all WAN traffic by 2031.



4 Routing architectures will evolve to support AI training and inferencing



Is your network ready for the AI era?



To ensure successful AI deployments, leaders should ask:

1. Can my private network architecture handle GPU clusters and large-scale AI training?
2. Are my data centers interconnected to efficiently handle distributed training?
3. Do I need to deploy AI models at the edge to meet real-time inferencing requirements?
4. Can my routing infrastructure deliver business-grade latency?
5. What actions do I need to take to guarantee AI performance without compromising other critical business applications?

Leverage HPE Juniper Networking's AI-native routing to lead the AI transition

An AI-native routing portfolio ensures a network built and engineered for AI. HPE Juniper Networking Routing Infrastructure solutions offer:

- AI-native operations
- Sustainable and versatile routing platforms
- Intent-based network automation
- Uncompromising Zero Trust security
- Interoperability and open standards

To learn more, read this white paper on AI's impact on wide area networking.

Uncited data is available in the research study, "AI's Impact on WAN Traffic: Keystone Market Study," Omdia Research, 2025

[1] "Seizing the agentic AI advantage," McKinsey, June 13, 2025

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