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## **NETWORKING FOR AI: GenAl Workloads Alter Network Pressures** and Priorities

Deploying GenAl workloads across the network infrastructure presents many challenges and shifting requirements. Networks that support AI require new architectures and strategies tailored to the Al era.







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#### **Networking Capabilities** Vital to GenAl Success

Given the criticality, complexity, and costs of GenAI deployments, a solution approach that optimizes distributed processing and supports advanced networking functions promotes operational simplicity, security, and savings.

**78%** of IT organizations cite networking capabilities as important when selecting GenAI providers.

#### Datacenter Switching Preferences Emerging

Vendor roadmaps, pricing flexibility, and platform performance drive GenAI switching decisions. Ethernet leads InfiniBand for Al-mature organizations.



#### The Hybrid Cloud Dominates **GenAl Deployments**

While concerns over cloud costs and security persist, the advantages of hybrid cloud environments match **GenAl requirements.** 



use a single hyperscale cloud platform.

#### **GenAl Infrastructure Is Dynamic and Distributed**

As the planned buildout of distributed GenAl infrastructure proceeds, the role of the network will grow dramatically.



### AI Expected to Play Active Role in Network Automation

Confidence in Al-powered network solutions is growing, with more organizations entrusting AI to not only determine but also execute actions.





48%

of organizations prefer Al-powered network management solutions that both determine and execute the necessary automated actions for remediation and optimization.

#### 36%

prefer AI-powered network solutions that guide precise staff remediation and optimization actions but do not execute actions automatically.



16%

prefer not to use AI-powered network management solutions for remediation and optimization.

All data from: IDC's Worldwide Al in Networking Special Report, 2024



# Message from the Sponsor JUNIPer

Juniper Networks believes that connectivity is not the same as experiencing a great connection. 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.

To learn more, download the IDC Whitepaper, Driving Superior Business Outcomes with AI-Native Networking Part 2 of 2: AI for Networking

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