

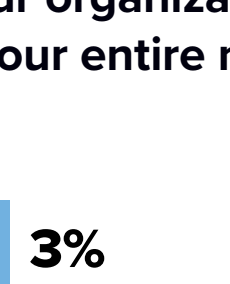


# How AI Accelerates Branch Network Evolution

Integrated management of enterprise campus and branch networks via an AI-enhanced, cloud-managed platform enables myriad benefits for businesses and service providers.

## The changing enterprise network

Enterprise networking is at an inflection point as organizations reimagine how networks are architected, deployed and managed



### Connectedness Maturity is mid-stage:

**53%** of respondents report they are in one of the three lowest stages of connectedness maturity

**Q. To what extent is your organization currently connected digitally across your entire network footprint?**

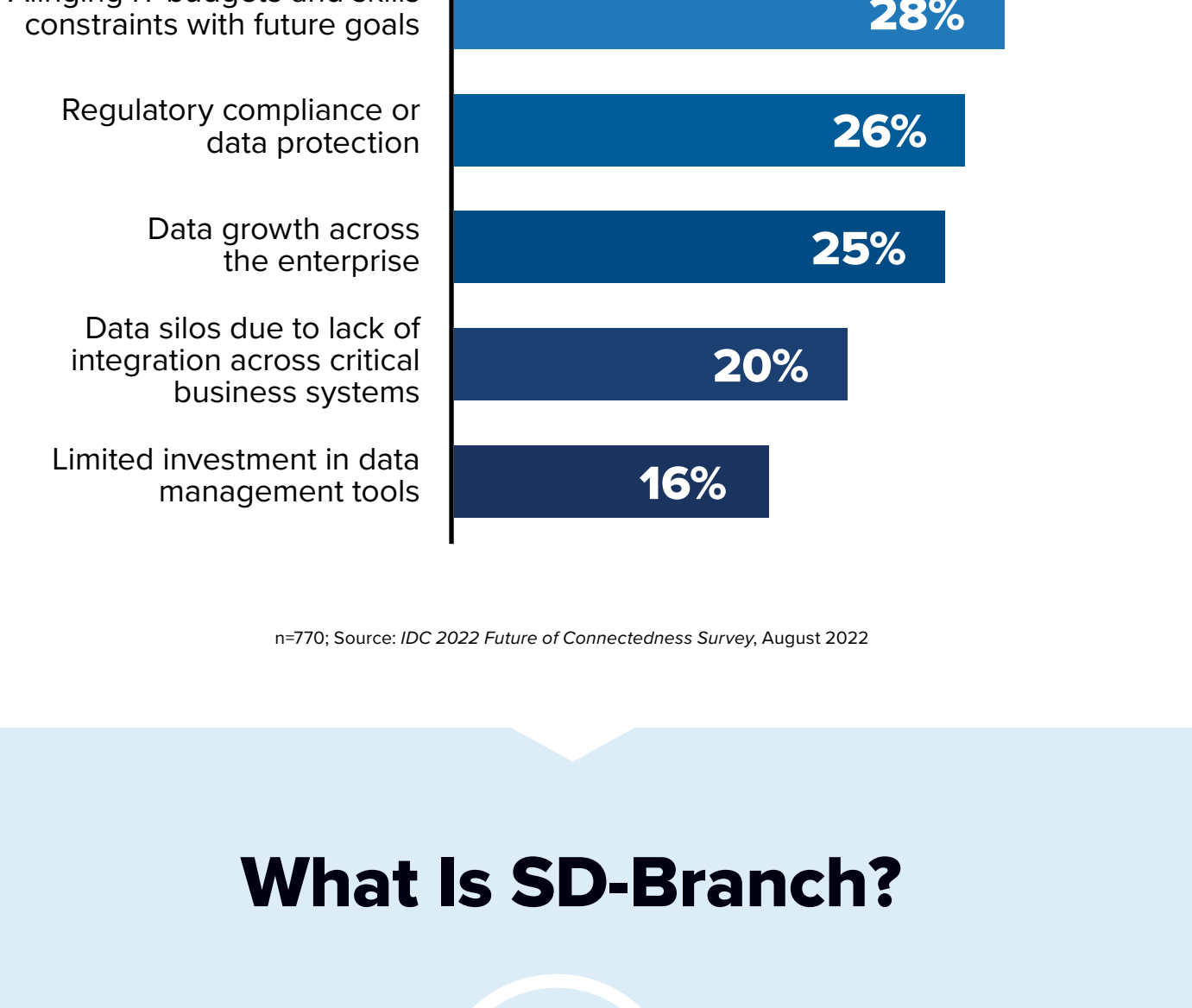


n=770; Source: IDC 2022 Future of Connectedness Survey, August 2022



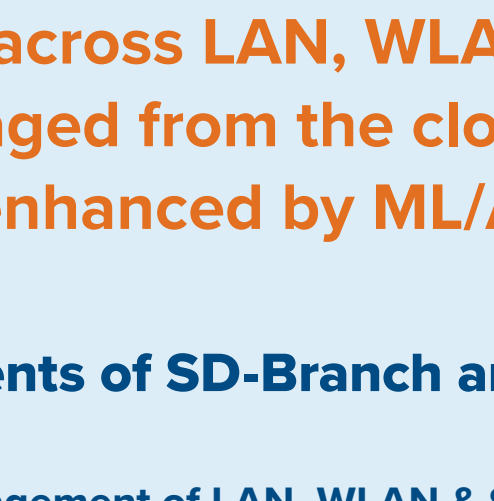
### Connectivity Challenges

**Q. From an IT perspective, what are the top three connectivity-related challenges your organization currently faces?**



n=770; Source: IDC 2022 Future of Connectedness Survey, August 2022

## What Is SD-Branch?



SD-Branch architectures enable integrated management across LAN, WLAN & SD-WAN networks, managed from the cloud, with native security and enhanced by ML/AI operations

### Key components of SD-Branch architectures:



#### Integrated management of LAN, WLAN & SD-WAN

**85%** of survey respondents said they would be somewhat or very likely to work with their existing LAN vendor when deploying SD-WAN



#### Managed from the cloud

- Eliminates the need for on-premises management
- Enterprises get fast access to new features, functions & capabilities
- Allows service providers to manage multiple customers simultaneously



#### Enhanced by ML/AI

- Monitor regular behavior, and flag anonymous activity
- Self-remediation fixes problems before they impact users



#### Integrated security

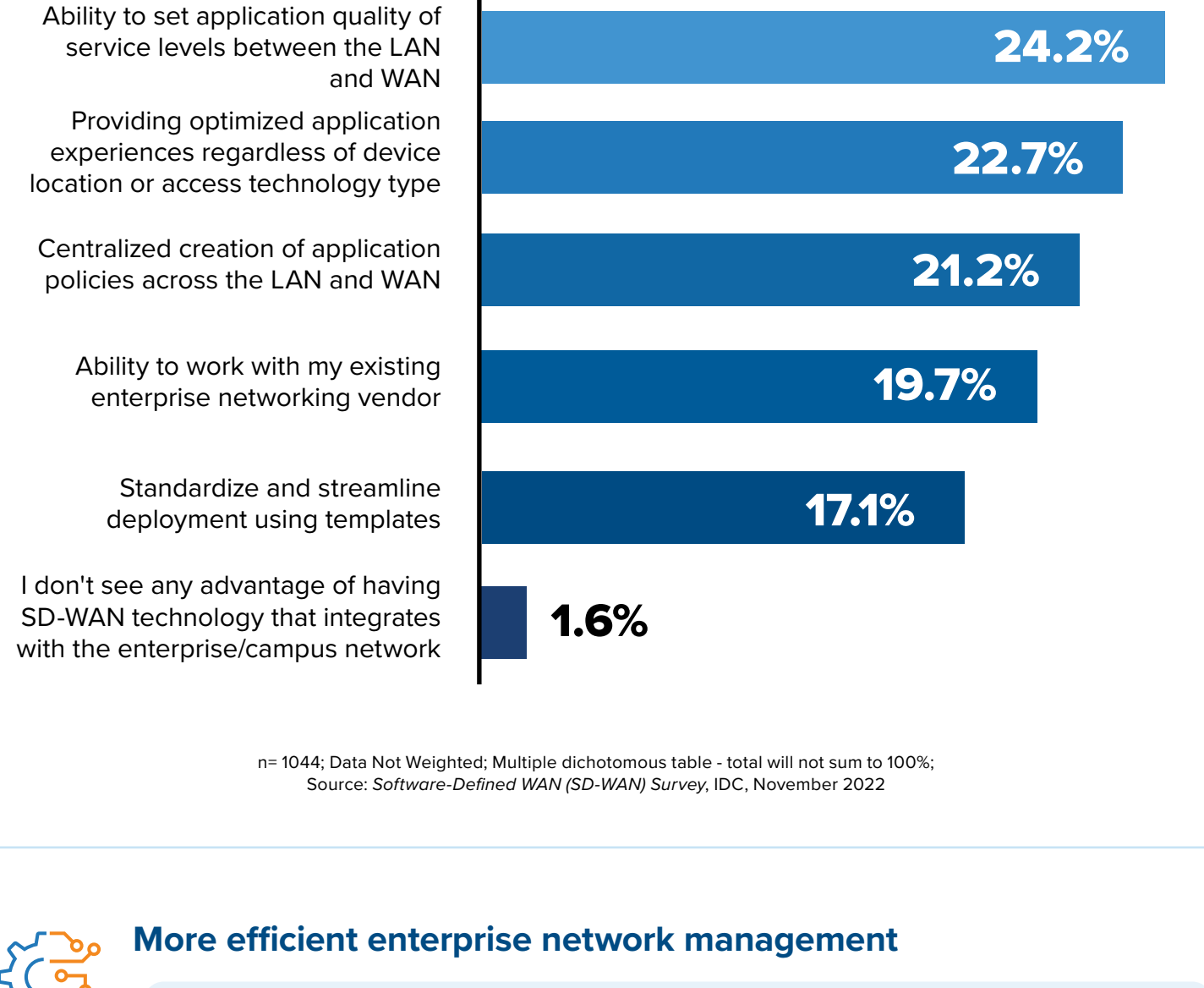
**Secure SD-WAN** with native next-gen security (IDS/IPS/URL Filtering) combined with Secure Services Edge functionality (FWaaS, CASB, SWG, ZTNA) enables SASE architectures.

**Network Access Control (NAC)**

## Benefits of SD-Branch

Top advantages to an integrated SD-WAN & LAN/WLAN: troubleshooting, easier deployment, consistent security policies

**Q. What advantages, if any, do you see with SD-WAN technology that integrates with enterprise networking needs (wired and/or wireless)?**



n=1044; Data Not Weighted; Multiple dichotomous table - total will not sum to 100%; Source: Software-Defined WAN (SD-WAN) Survey, IDC, November 2022



#### More efficient enterprise network management

**Break down silos:** Use common policies across different parts of the network (e.g., wired & wireless LAN; or LAN & WAN)

- Deliver AI-driven insights and automation
- Allow IT teams to focus on business-enabling tasks



#### Optimizes user experience

- Integrated observability enables insights into user experience and network performance
- Direct connectivity to multicloud networks



#### Fully scalable

**Cloud-based management** allows for massive scalability, without increasing complexity

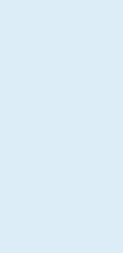


#### More sustainable operations

- Advanced infrastructure components are power-efficient
- Power-over-Ethernet reduces cables
- Radio Resource Management (RMM) automatically optimizes Wi-Fi power consumption

## Advice on Implementing SD-Branch

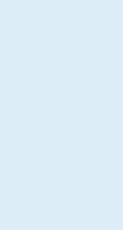
SD-Branch helps accelerate network transformation



#### Service providers play a critical role in enabling SD-Branch

**SPs support enterprises** in the full life cycle of a network deployment

**SPs require an advanced, scalable platform** for delivering SD-Branch

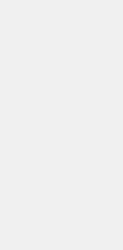


#### Enterprises should consider a journey toward SD-Branch

**Begin with integrated management** of wired and wireless LAN, or integrated observability

**Explore how AI can help** improve operations and optimize end-user experiences

**Advanced SD-Branch architectures** use a common management platform for LAN, WLAN, SD-WAN & security, managed from the cloud and enhanced by AI



#### Consider additional features and new consumption models

**Indoor location-based services** enable asset-tracking and way-finding

**Enterprise Network as a Service (Naas)** enables flexible consumption models for SD-Branch

## Message from the Sponsor

Juniper's SD-Branch simplifies branch-office communications with AI-driven, software-defined routing, switching, Wi-Fi, and security delivered from the Juniper Mist cloud. Tunnel-free Session Smart™ Routing accelerates application performance for faster response times, while Mist AI™ automates operations and speeds troubleshooting. With visibility into the real-time service levels of individual users, network administrators can continuously fine-tune the network and optimize user experiences.

[Learn more](#)