SD-WAN: The Secure Foundation for The New Retail Landscape of Networking



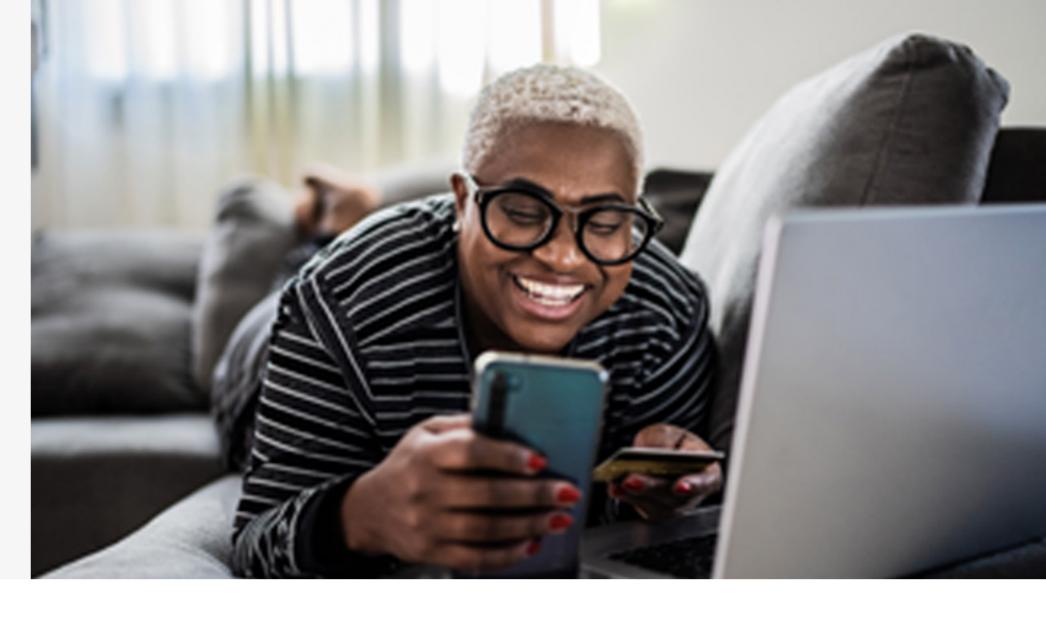
Protecting access to business applications anywhere and anytime. As big box stores, QSRs and grocery stores rapidly adopt a cloud-first strategy, the IT landscape has become significantly

different. Enabling secure access to applications wherever customers may be is a significant priority. While delivering speed and agility, the multicloud environment creates challenges such as an expanded attack surface and less control over the customer experience. Cisco® SD-WAN helps you address these issues.

With the power of multicloud access and integrated security, retailers can improve performance, reduce costs, and protect critical information. As a cloud-native WAN overlay, Cisco SD-WAN ensures application performance, adapts to changing conditions—with minimal manual intervention. Cisco SD-WAN is the foundation for a Secure Access Service Edge (SASE)-enabled architecture and offers the ability to extend IT's visibility beyond the corporate office or the store and into the internet and cloud.

multicloud approach.¹

89% of companies use a



Today, your network must work harder than ever to deliver the customer and associate experience over the cloud that they expect. With Cisco SD-WAN Cloud OnRamp, you can enable applications on any platform with consistent, predictable

Harness the power of the cloud.

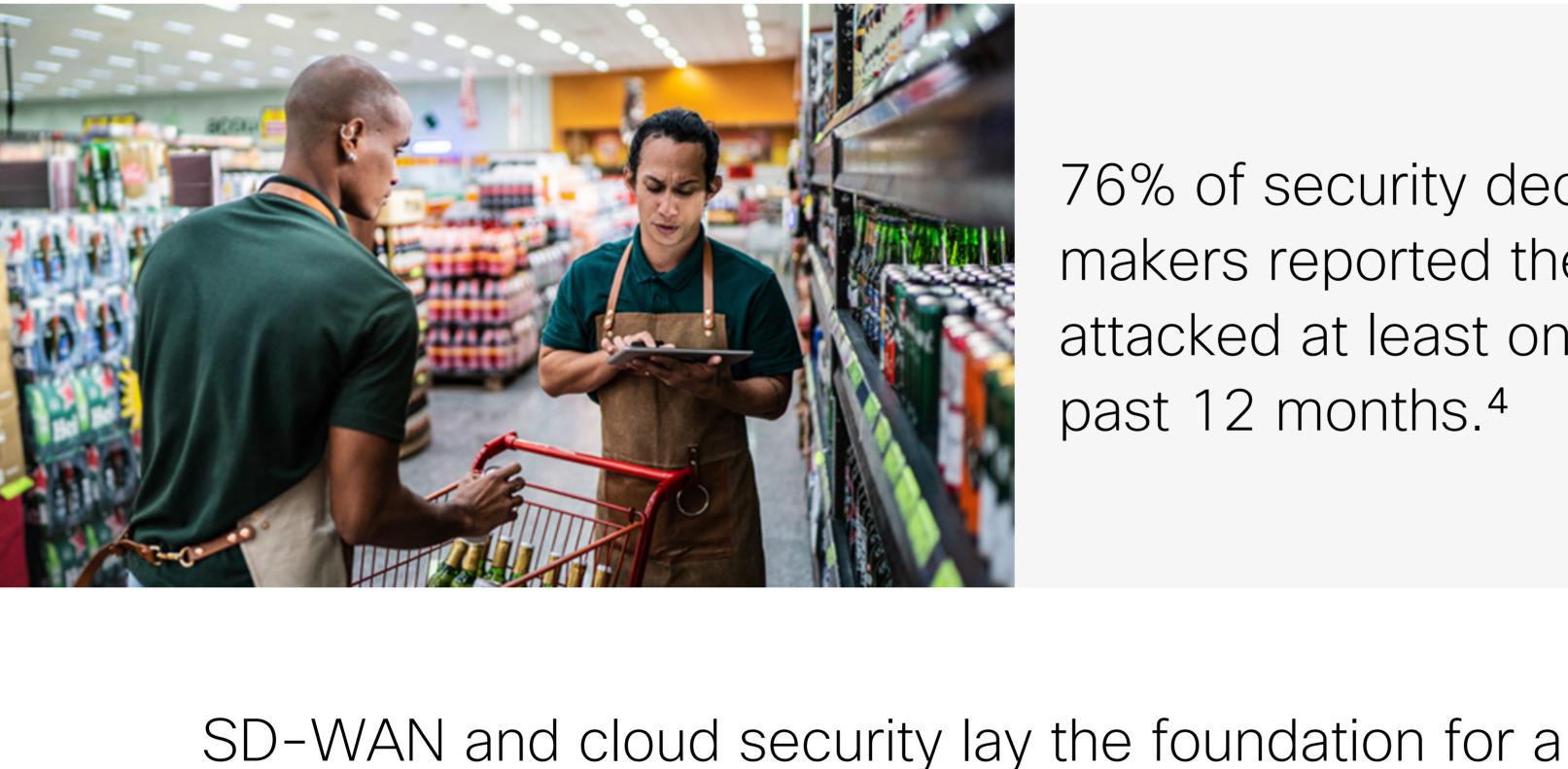
performance in minutes. Software-Defined WAN (SD-WAN) helps you optimize your wide district area network, which means better experiences for everyone. Cloud OnRamp for Software as a Service (SaaS) uses real-time analytics to steer users onto the best-performing path for

optimal application performance for applications like Microsoft 365, Google Docs, and other cloud-based apps. Enjoy up to 40 percent faster performance for Microsoft 365 with Cisco SD-WAN.² Cloud OnRamp for Infrastructure as a Service (laaS) delivers seamless, automated connectivity to the cloud. The cloud

networking solution simplifies workflows for Amazon Web Services (AWS), Azure, and Google Cloud, including

application-aware policies that allow real-time policy enforcement for cloud and on-premises solutions. Worldwide end-user spending on public cloud services is forecast to grow 20.4% to total \$678.8 billion in 2024, up from \$563.6 billion in 2023.3 In addition, Cloud OnRamp automates on-demand connectivity to multiple sites and to the world's leading cloud provider

networks through Software-Defined Cloud Interconnect (SDCI) providers like Equinix and Megaport.



SASE transformation.

67% of enterprise

makers reported they were attacked at least once in the past 12 months.4

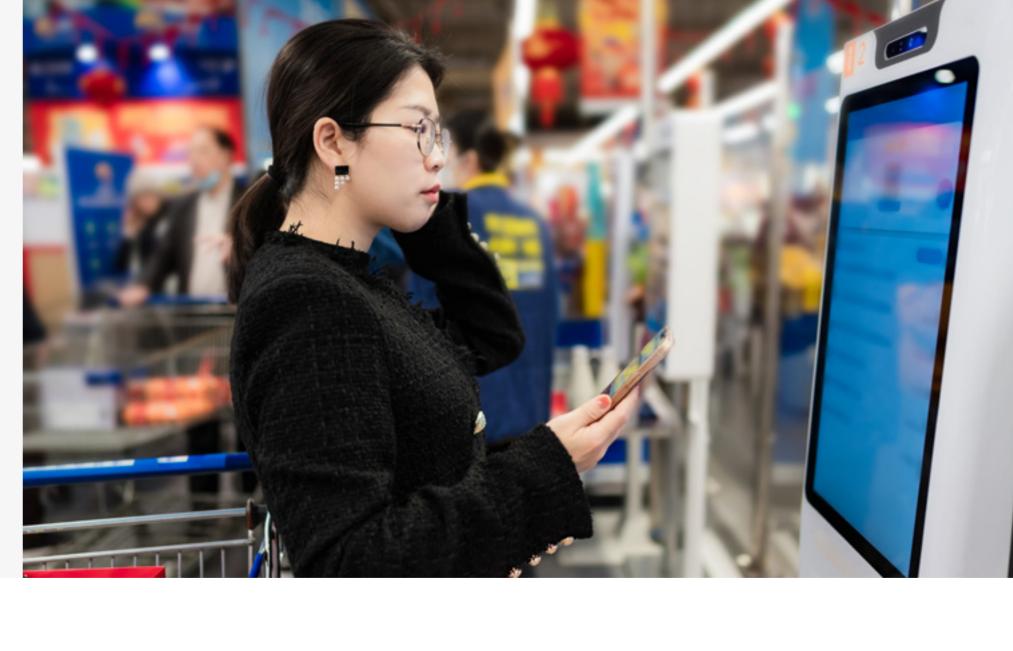
76% of security decision

With the expansion of hybrid work and online shopping, the demand for anywhere, anytime access to applications has resulted in the transformation of networks to deliver uninterrupted connectivity while maintaining security. To protect anywhere, anytime access, retailers need to provide security closer to the customer and edge to support network agility and minimize

network latency. Cisco SD-WAN provides full-stack multilayer security capabilities for both on-premises and cloud. It bridges institutions' current security deployments with their SASE rollout by providing consistent security policy enforcement that can be deployed and managed anywhere.

Data breach costs rose from \$3.86M to \$4.24M, the highest average total cost in the history of data breach report.

infrastructure is cloud-based.5



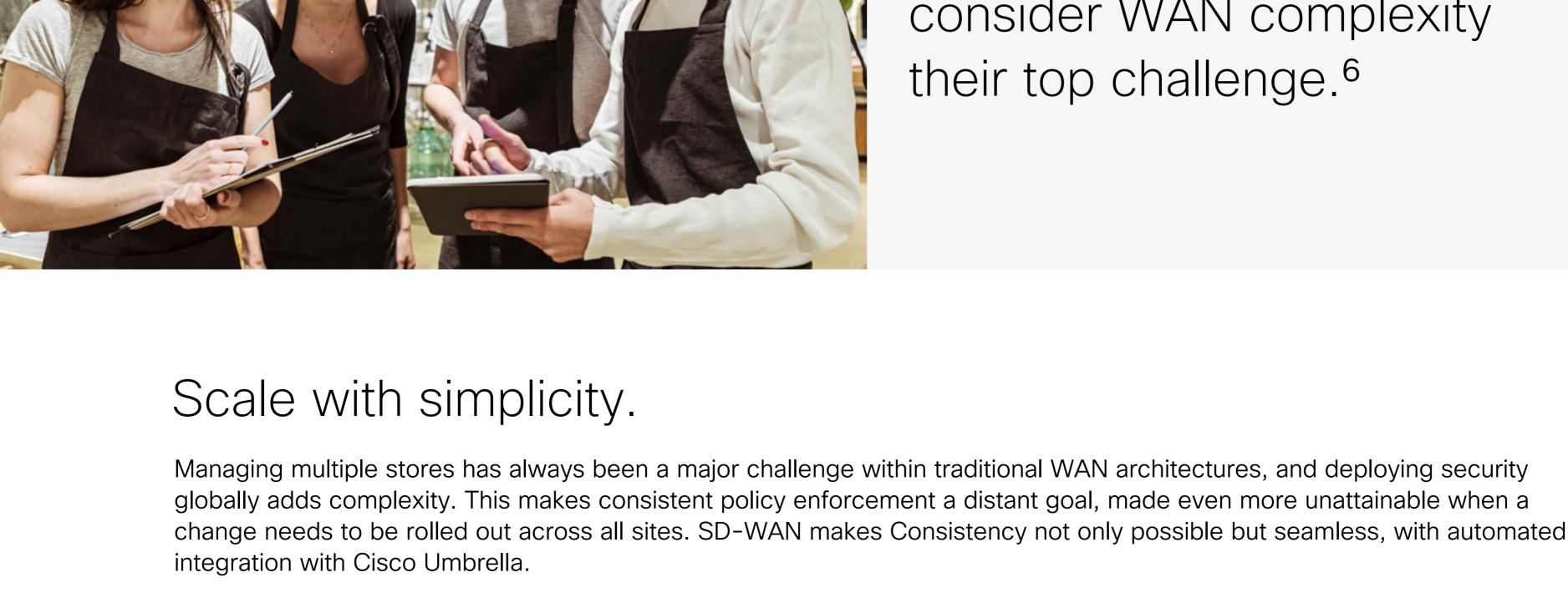
Gain analytics and get more insights. Applications and customers are more distributed than ever, and the internet has effectively become the new enterprise WAN.

connectivity, application performance, and security over networks and services they do not own or directly control. Network teams often carry the burden of proving the network innocent when something goes wrong. Application issues might manifest themselves as network issues. Service disruptions can lead to endless finger-pointing. The resulting cycles pinpointing the source of issues can lead to prolonged service interruptions.

As retailers continue to embrace the internet, cloud, and SaaS, network and IT teams are challenged to deliver reliable

Cisco SD-WAN and ThousandEyes integration extend visibility into the internet, cloud, and SaaS applications for actionable insights beyond the traditional corporate network. Whether moving to the cloud or transitioning to SD-WAN from legacy infrastructures, ThousandEyes can assist businesses make informed decisions by leveraging real baseline data. Enterprises can expedite ThousandEyes agent deployment with vManage integration to quickly pinpoint the source of issues, get to resolution

faster, and manage the performance of what matters. vAnalytics correlates application behavior and Quality of Experience (QoE) with the underlying SD-WAN network, translating real-time data into visualized insights.



37% of enterprise architects

consider WAN complexity

their top challenge.6

Regardless of the number of stores you have, SD-WAN simplifies network management. With a single WAN fabric, all configurations can be centrally managed, even across multicloud environments. Cloud security can be enabled to thousands of sites within minutes. The outcome is true simplicity at an enterprise scale.

Director of product management, Riedel Networks

applications and edge compute resources.

within 24 months.⁷

ease of doing business with internet service providers can vary from region to region. Luckily, Cisco SD-WAN can scale your business, thanks to its support for multigigabit wireless. To do this, the Cisco Catalyst® 8000 Edge Platforms family offers multigigabit Ethernet interfaces. With these high-performance ports, customers can connect Cisco Catalyst Cellular Gateways and get sub-6-GHz 5G wireless connectivity, reaching speeds of up to 3.3 Gbps and more with upcoming mmWave models.

In addition, relying on the internet for enterprise cloud access on a global level adds even more complexity. Link quality and the

Dual 5G SIM for failover and IP pass-through mean that multigigabit 5G for SD-WAN can either complement broadband internet connections or replace them entirely.

Get fast, flexible connectivity to the cloud that can be remotely activated and managed through the Cisco SD-WAN dashboard.

"Cisco SD-WAN security delivers simplicity and automation so that we can apply the right security controls where needed, when needed. We are very excited to bolster that solution with the Catalyst 8000 Edge Platforms family."

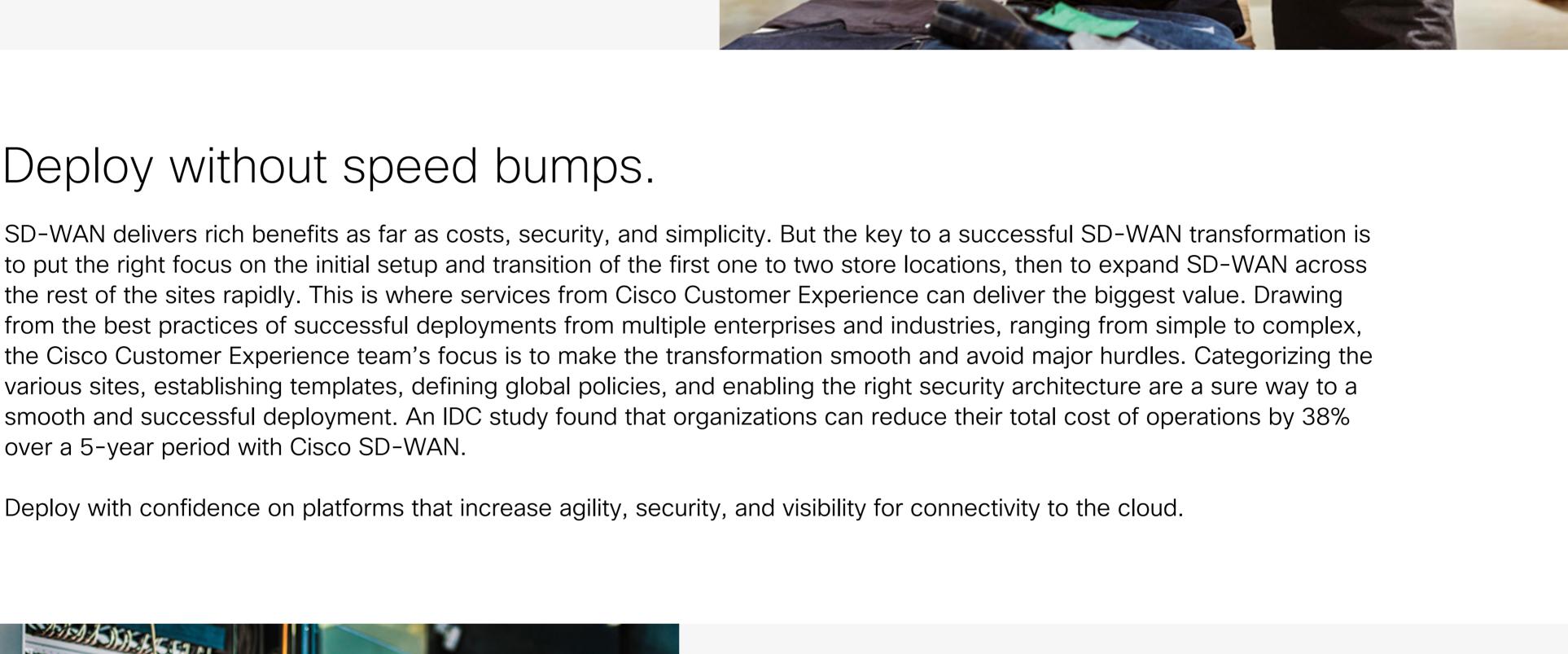
The Cisco Catalyst 8000 Edge Platforms family provides customers the flexibility to increase memory, capacity, and

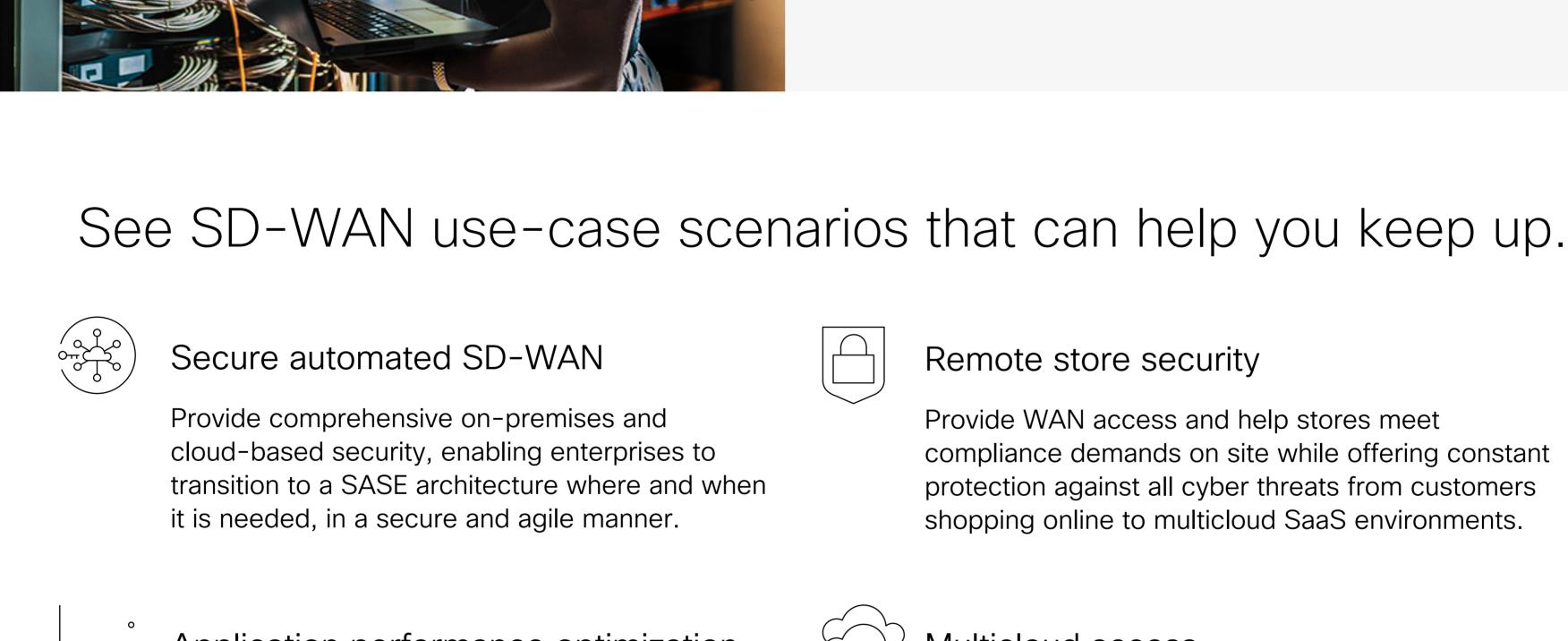
performance. The portfolio offers investment protection with 5G technology. Cisco offers the highest-performing

SD-WAN edge platforms in the industry, with end-to-end visibility through analytics for optimization of cloud

95% of enterprises are using or expect to use SD-WAN

over a 5-year period with Cisco SD-WAN.





Remote store security

Provide WAN access and help stores meet

Connect stores and a remote workforce to

multicloud applications seamlessly with unified

compliance demands on site while offering constant

protection against all cyber threats from customers

shopping online to multicloud SaaS environments.

The SD-WAN market is

than \$8 billion by 2026.8

forecasted to grow to more

Application performance optimization Multicloud access

applications always maintain the highest Service-Level Agreements (SLAs) and optimal performance, even if problems occur in the network. Secure Direct Internet Access (DIA) Optimize store or site workloads while increasing security and improving application performance.

access to the network.

Design a global network where critical enterprise

The result is efficient and cost-effective secure

visibility and management.

"Thanks to Cisco SD-WAN, our network topology is now optimized and centralized across all of our operations and IT offices, making it easier to manage data and incrementally save costs." Head of IT enterprise, Vistara

Cisco's portfolio for retail

4. Veeam Data Protection Trends Report 2024. 5. "High-Tech Forecast: Cloudy, With Showers Of Innovation," Forbes, 2022. 6. "Enterprise Networking: Emergence of the New Normal Survey," IDC, 2020.

imply a partnership relationship between Cisco and any other company. (1110R)

1. "2023 State of the Cloud Report," Flexera, 2023.

2. "Cisco SD-WAN Solution Overview," Cisco, 2023.

- 7. "Application performance becoming a key concern, influenced by increasing SD-WAN complexity," Helpnetsecurity, 2020. 8. "SD-WAN by the numbers: Market size, growth, adoption," SDxCentral, August 2023.

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