

Building a simple, more agile network with SD-WAN

SD-WAN is providing a new, virtualized approach to business networks undergoing digital transformation.

The Wide Area Network (WAN) has emerged as a key pillar in the digitally transformed business

New applications depend heavily on connectivity to create more immediate and direct interactions with customers and employees. SD-WAN:



Helps organizations move applications and compute closer to where they are being consumed



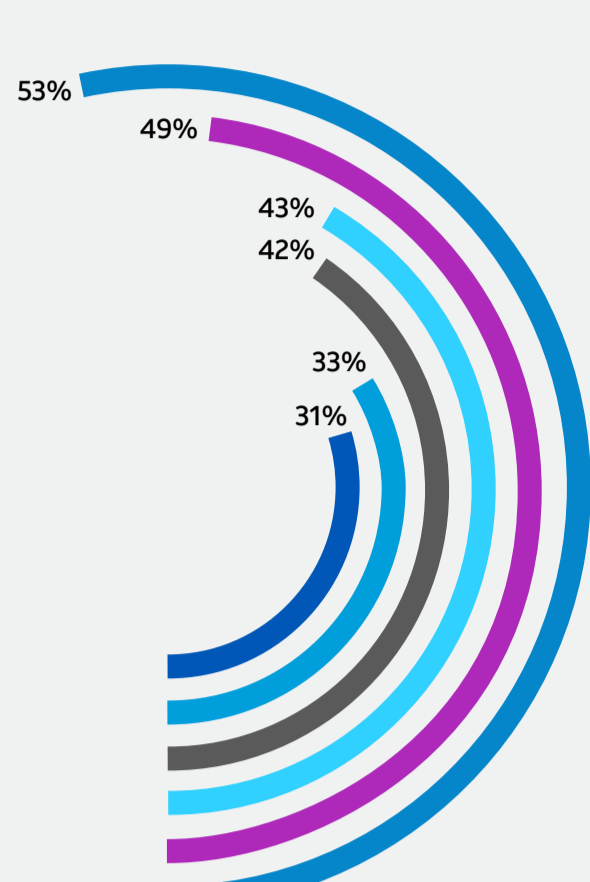
Empowers the IT team to respond and reconfigure quickly



Supports enhanced capabilities and security, and reducing management overhead

Organizations see many potential benefits in SD-WAN technologies.

- 53% Increased resiliency
- 49% Increased agility from software control
- 43% Improved management and monitoring
- 42% Lower cost
- 33% Improved security
- 31% Potential to replace hardware



*Source: 2018 State of the Network Study, Network World

Figure 1

For these reasons, SD-WAN has become a key consideration for businesses of all sizes. Many see it as their key to unlocking a more agile and cost-effective network. IDC surveyed 262 IT professionals about their organizations' plans for their top initiatives. Figure 2

- 36% actively researching
- 13% piloting
- 12% have installed

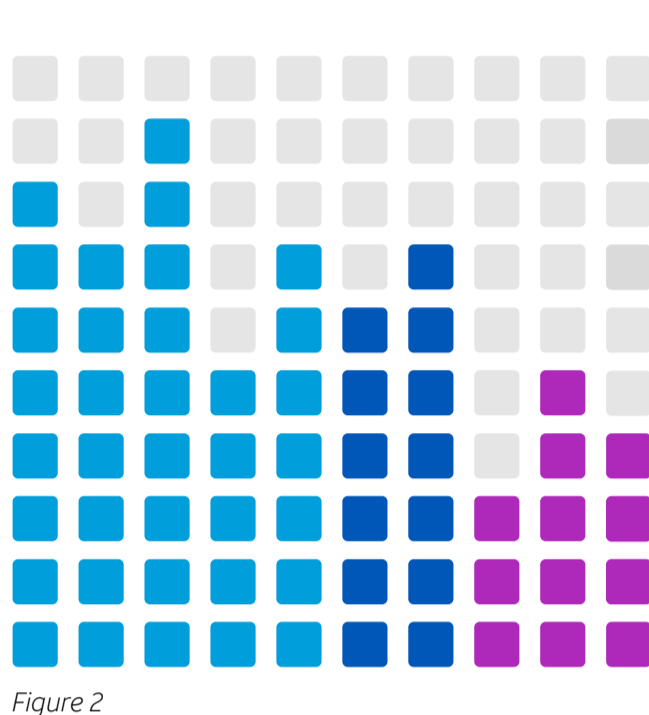


Figure 2

*Source: 2018 State of the Network Study, Network World

AT&T SD-WAN offers a replacement for traditional branch routers. SD-WAN can enhance your network with several capabilities:

1

dynamic path selection

2

centralized policy management

3

WAN edge device management

4

simple configuration

SD-WAN is access agnostic and creates highly secure paths across multiple connections.

Businesses should carefully consider their choice of a communication service provider. Does their provider lay the foundation to support these strategic choices?

IDC believes enterprises that incorporate these recommendations during their decision-making process for an SD-WAN service provider will drive better business outcomes.

Source: IDC MarketScape: Worldwide Communication SP SD-WAN Managed Services 2018 Vendor Assessment

- Alignment with digital transformation (DX) initiatives
- Evolution of SD-WAN toward full NFV (network function virtualization) implementation
- Adaptability of SD-WAN solution with business needs
- Innovation toward a fully automated network configuration

Businesses can choose the AT&T SD-WAN Network-Based solution or the cloud-based Over-the-Top solution.

AT&T SD-WAN Network Based solution integrates SD-WAN with the private, secure, reliable and high performing AT&T VPN core MPLS network.

In addition to the inherent SD-WAN benefits of end-to-end application performance and availability, the AT&T SD-WAN Network Based solution routes all intra-network traffic, including traffic that originated on the internet, via the AT&T VPN core MPLS network. This can result in improved reliability and overall performance. AT&T deploys an AT&T FlexWareSM Device (universal customer premises equipment (uCPE)) with an SD-WAN virtual network function (VNF) at each location. Figure 3

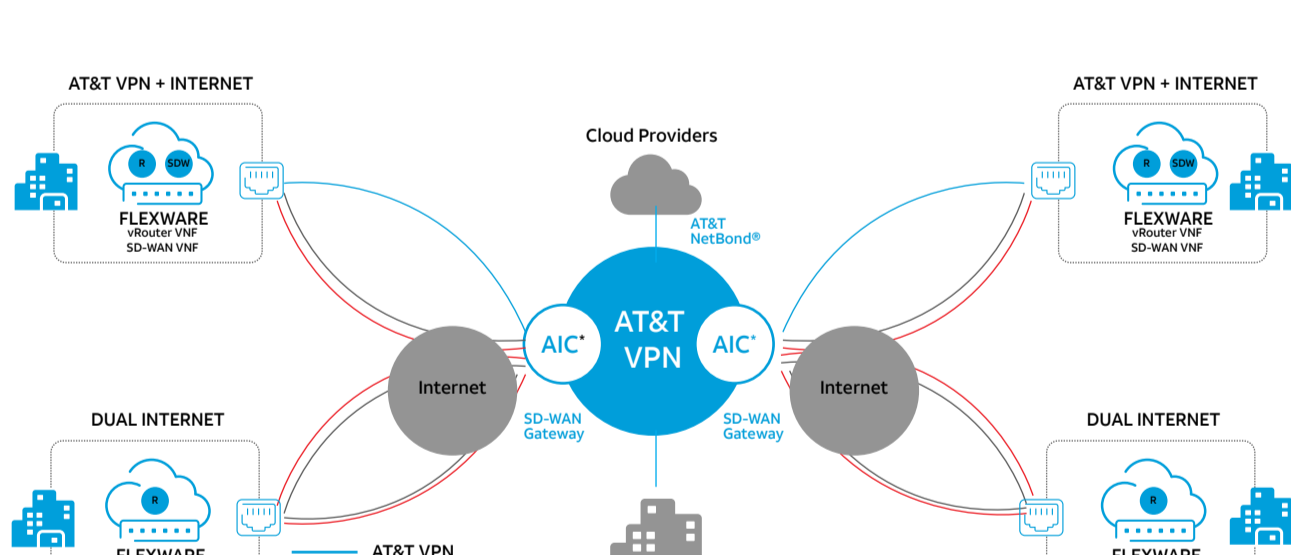


Figure 3

AT&T SD-WAN Over-the-Top, integrated with software-orchestrated hardware with one or more VNFs, creates uniquely tailored SD-WAN solutions.

AT&T SD-WAN Over-the-Top, integrated with software-orchestrated hardware with one or more VNFs, creates uniquely tailored SD-WAN solutions. AT&T deploys an SD-WAN-enabled FlexWare device or VeloCloud combined at each location, which can be combined with a variety of global network connectivity options (e.g., MPLS (Multi-protocol Label Switching), dedicated internet, broadband internet, and wireless). Figure 4

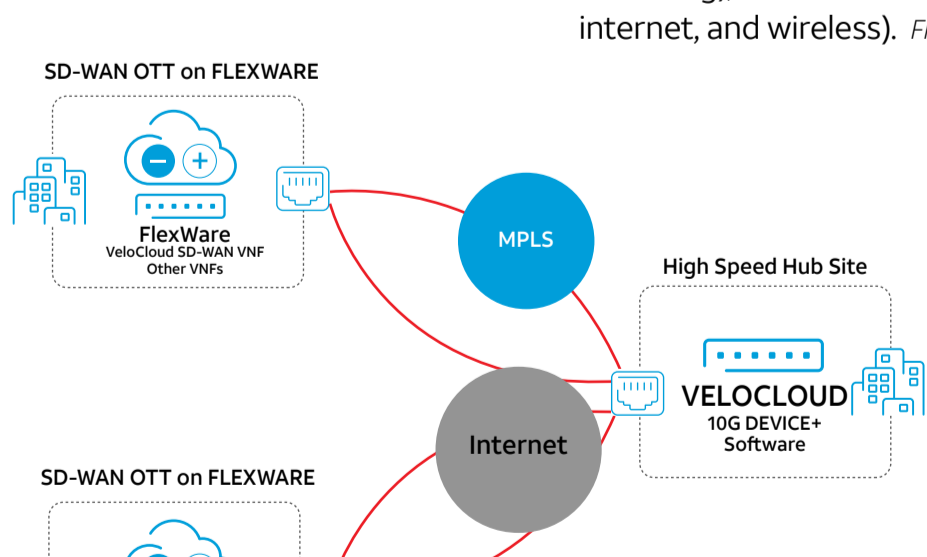


Figure 4

International Data Corporation (IDC) named AT&T a Leader in their IDC MarketScape: Worldwide Communication SP SD-WAN Managed Services 2018 Vendor Assessment:

“AT&T SD-WAN solutions are truly unique, allowing MPLS customers to mix and match SD-WAN and non-SD-WAN sites and enabling gradual transformation that minimizes operational disruptions. AT&T provides graceful migration from traditional managed routers to software-defined WAN and allows a logical move to a cloud-based implementation.”

View full report: <https://digital.att.com/IDCMarketScape?brief=IB5dB5dw00IDC00L>

For more information on AT&T SD-WAN www.att.com/sdwan or call your AT&T Account Representative

