in cooperation with vmware®

Deutsche Telekom SD-WAN based on VMware

Future-proof, secure and flexible SD-WAN

Most companies will be pursuing a cloud-first strategy in the coming years. But they don't want to rely on a single cloud provider for everything. The idea is to make applications available to users directly, whether they're at home, at the office, or connected to a hotspot at the airport. Modern office applications, however, generate a great deal more network traffic. More bandwidth is required as a result. New security risks also evolve on a regular basis. Deutsche Telekom is able to meet all these needs with cost-efficient, high-performance SD-WAN networking technology.

85% of organizations will embrace a cloud-first principle by 2025
(Gartner, 2021)

76% Organizations surveyed have multi-cloud environments
(HashiCorp State of Cloud Strategy Survey, 2021)

Key challenges

In a changing world, networks must adapt

- Enabling hybrid work
- Improving the user experience
- Achieving multi-cloud connectivity
- Scalability

Today's branch office users consume much more wide area network (WAN) bandwidth than before. Cloud services, large rich-media files, and software as a service are why. Most WAN traffic, however, still gets routed using 90's tech like MPLS (high quality of service, limited capacity, high cost) or DSL, cable, and LTE internet connections (faster deployment, more capacity, less reliable). But backhauling branch traffic through enterprise data centers increases latency, and the internet can be unpredictable, with the following consequences:

→ Not enough bandwidth or performance for new applications
→ IT complexity delays branch network deployments
→ Hub and spoke architectures prevent migration to the cloud

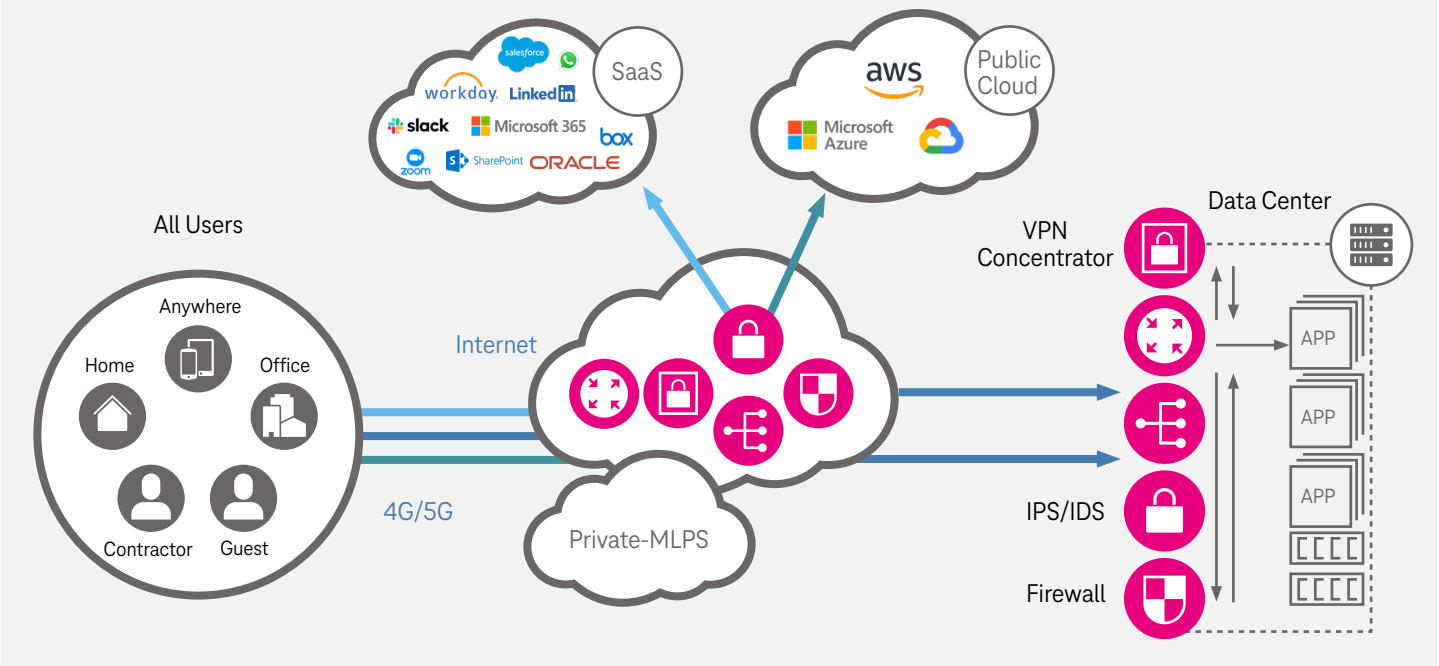
SD-WAN based on VMware

Secure, cloud-based configuration and management

VMware® SD-WAN™ is a cloud-delivered solution for businesses who want to ensure high application performance and availability at lower cost. VMware SD-WAN delivers a reliable and resilient wide area network (WAN) with a choice of connection types including Multiprotocol Label Switching (MPLS), LTE, WiFi and broadband. The solution combines multiple links, using traffic steering technology to select the best path for each application. Integrated congestion mitigation technology detects degradation and improves performance over single links.

VMware SD-WAN lets enterprises securely support application growth and network agility. It simplifies branch implementations while delivering reliable access to cloud services, private data centers and software as a service (SaaS). Software-defined networking principals address end-to-end automation, application continuity, branch transformation, and security. The solution comprises cloud gateways, branch office and data center appliances, a central orchestrator to automate policies, and virtual services insertion capabilities.

Multi-link SD-WAN for secure, high-performance multi-cloud access



Key features

- **Direct cloud on-ramp**
  3,000+ VMware SD-WAN gateways are deployed globally at top-tier cloud data centers or on-premise at service providers to provide a quick, secure, and high-quality on-ramp to the cloud from any location.

- **Assured application performance and monitoring**
  VMware SD-WAN boosts the service level and capacity of hybrid networks or standard broadband internet links with Dynamic Multipath Optimization. WAN circuits are automatically profiled and continuous monitoring of the link and path quality provide real-time feedback for dynamic optimization.

- **Dynamic application steering**
  Applications are automatically recognized and steered to the optimal link(s) based on business priority, network requirements, and real-time link performance. Dynamic per-packet steering can move a session mid-stream to avoid link degradation. Single high-bandwidth flows can utilize aggregated bandwidth for faster response times.

- **On-demand remediation**
  Remediation including error correction, jitter buffering, and local re-transmits are applied on-demand when only a single link is available or concurrent link degradations cannot be steered around. Remediation is only applied for priority applications that are network-sensitive and when brownout link degradations occur.

Your benefits

- **Cloud-ready**
  SD-WAN from Deutsche Telekom gives you secure and direct connections to any cloud (SaaS or IaaS), from any location — so every single user can rely on outstanding connectivity and performance.

- **Cost-efficient**
  Selecting the best connection for each individual application scenario reduces costs significantly. Deutsche Telekom provides practically any type of connectivity you can think of including DSL, mobile data, LTE, 5G, and Ethernet as well as integration with third-party options.

- **Secure**
  All connections are encrypted and meet the highest international confidentiality and data protection standards.

- **Flexible**
  You can set up new connections and make changes at the push of a button with SD-WAN. All those hours spent on tedious processes are now a thing of the past. Quickly choose bandwidths and options without interrupting service to ensure stability and flexibility.

- **Transparent**
  Extensive features including real-time monitoring and traffic analysis on the application layer provide valuable insight into how your network is performing and how your users are experiencing their applications.

USPs

Assured application performance

Ease of cloud adoption

Choice of edge security

The Deutsche Telekom Global Business portfolio

We are your partner of choice for design, implementation, and operation of secure SD-WAN solutions perfectly tailored to the needs of your business.

Zero-risk migration
We leverage tried-and-trusted industry-leading migration methodologies and operational principles — with a Zero Outage track record.

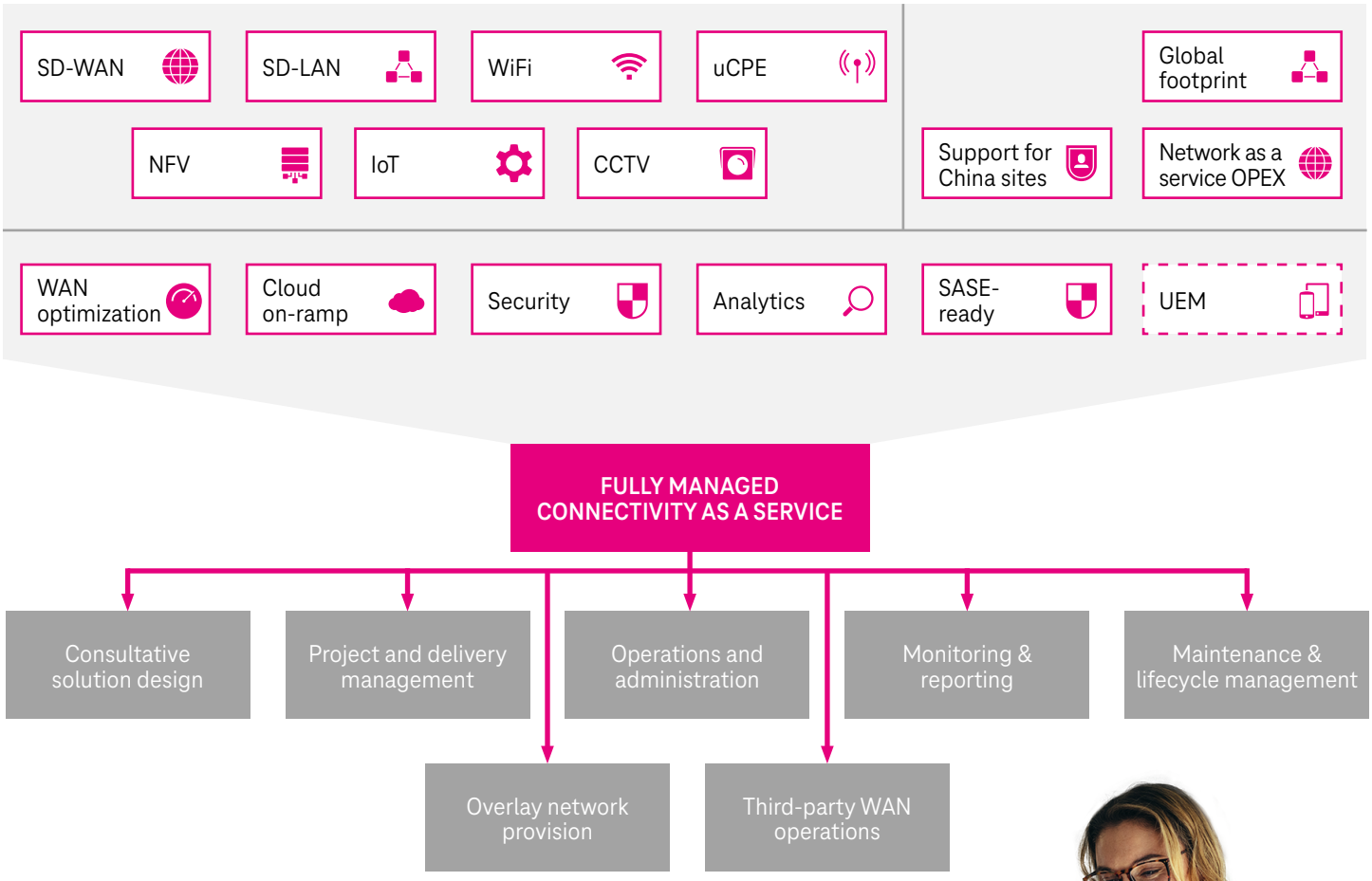
End-to-end service
We provide a single, accountable point of contact, offering personal, end-to-end service.

Multiple deployment options
Our SD-WAN services can be used as complete network solutions including our internet access service or MPLS network.

Consultancy approach
We help you build an SD-WAN solution that is a perfect match for your company's DNA by analyzing current and future business needs.

Benefit from our vast experience

Whether it's the underlay network, endpoints, geographic reach, security, or analytics — there are many aspects to consider during the planning for and migration to a business-centric SD-WAN solution. When you choose Deutsche Telekom Global Business, you get the expertise this level of complexity demands. Profit from the vast experience we've accumulated over the years by successfully providing more than 500 customers with fully managed connectivity.



Success story

SD-WAN solution for Asahi

The company
Asahi Europe & International has some of the world's best beer brands in their portfolio. A total of more than 10,000 employees work at 19 production facilities in eight countries across Europe.

The project
As part of its digital transformation journey, Asahi decided to migrate its previously separate MPLS networks to a global SD-WAN solution. Deutsche Telekom is orchestrating this comprehensive migration across more than 200 sites, including consolidation of multiple suppliers, cost optimization, and fully managed services. Asahi will benefit from increased network transparency. Greater access to data will enable them to improve the customer journey, employee experience, and supply chain.

SD-WAN solution for legal sector

The company
A global legal company that has grown through a merger and now has 19 locations around the globe in addition to more than 1,400 legal professionals.

The project
The company's network needed to become more efficient and secure. Greater control across the entire group was also a priority. Deutsche Telekom was able to deliver a tailored and staggered overlay/underlay solution with SD-WAN that improved network efficiency. With the VMware solution in-depth reporting and analytics dashboard, the company now has full visibility.
The scalable and future-proof environment now offers them all the performance they need to grow their business.

A strong partnership you can rely on

Deutsche Telekom Global Business

- Part of Deutsche Telekom Group
- 7 competence centers
- More than 400 SD-WAN experts
- Established in 28 countries

VMware

- Gartner leader in SD-WAN for multiple years
- Multiple industry awards
- Global SD-WAN capability and coverage
- Transport and carrier agnostic

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