



Managed SD-WAN

Building a dynamic secure network
for your digital future

Software defined networking (SDN) advances enterprise networks to be cloud ready making the network dynamic, intelligent and secure. It's a critical element for enterprises adopting an IT cloud strategy to support their digital transformation.

Our industry-leading global SD-WAN solution transforms the way networks are designed, built and managed. Our goal is to ensure users can securely connect to their applications in data centers, public and private cloud and internet-based SaaS with a high-quality user experience. We create a tailored solution leveraging the best technologies to fit your requirements based on application footprint, cloud strategy and usage policy.

With the NTT SD-WAN platform, we have designed an agile, secure and cloud-ready SD-WAN network that is reliable, resilient and responsive.



NTT Managed SD-WAN platform in brief

- flexible architecture that integrates global connectivity, network security and cloud access with a centralized delivery model
- real-time network analytics for deep insight into application and network performance
- secure optimized access to cloud and SaaS applications
- virtual network functions (VNFs) delivered from 75 local cloud centers to asset-lite branches
- supports client procured internet connectivity as well as NTT provisioned connectivity or both
- network infrastructure management for branches to deliver an optimized end-to-end client experience

Your network, your choice

Our SD-WAN solution supports client procured internet connectivity as well as NTT provisioned connectivity. For enterprises that have preferred relationships with local providers, this allows them to optimize their global connectivity strategy using our flexible model and still gain from NTT's single client experience. In addition, we deliver advanced network and security capabilities in the cloud or at your premises to meet your business needs. Our dynamic management platform enables us to activate new cloud-based network services in minutes rather than weeks.

We have architected and developed our own NTT Network Management tools and provide visibility across your entire network infrastructure through a single pane of glass. Our Global Operation Centers serve as the single point of contact for all services in the SD-WAN platform enabling consistently high levels of client service.

Unparalleled analytics and service management

To support the cloud and other application delivery requirements, SD-WAN requires much more than standard network support. End-to-end troubleshooting is more complex and involves skills across the IT, application, and security domains.

We can help you overcome this skills gap with our people, processes and tools. Our engineers will become an extension of your IT team to support and solve any issues, including new projects or changes.



Advanced analytics

At the heart of our support operations is advanced network predictive analytics, which can help you avoid 95% of network issues. We open 99% of trouble tickets proactively by using artificial intelligence to identify any patterns or anomalies. This allows us to detect and alert on issues before they can impact on your business.



People

Our Global Operations Centers (GOCs) use a follow-the-sun support model to provide round-the-clock customer service, 24x7x365. Extensive automation within our GOCs means we route any incoming calls directly to a skilled engineer certified in multiple SD-WAN technologies. They have access to auto-triaged information and the tools and systems to provide immediate diagnostic support. Calls are answered in an average of six seconds and 95% of all issues are resolved on the first call.



Processes

To ensure consistent customer experiences and operational efficiency worldwide, our GOCs use ITIL-aligned processes.

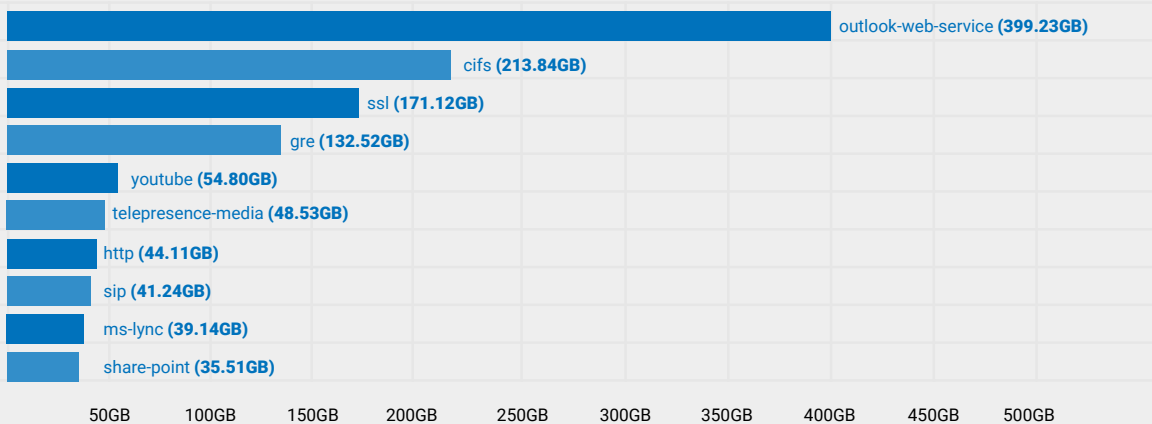
Putting the user first

The NTT SD-WAN platform uses an advanced architecture with a global 100% software defined network for overlay services. Our knowledge of application and network operations allows us to identify and configure policies to optimize network flow and deliver a high-quality end-user experience.

We provide real-time streaming network analytics to offer deep insight into application performance, network security, and the end-user experience. This enables us to deliver traffic visibility, load balancing, cloud optimization and traffic prioritization, based on information analyzed across the network. This ensures that your application traffic is fully optimized in real-time for all end users. Visibility into applications trends also allows proactive adjustment of the network for the launch of new applications or if their use increases, for example.

We use our redundant SDN global backbone for maximum resilience and performance. It includes integrated security delivered from the cloud and includes firewall, malware detection, intrusion protection services (IPS), and URL filtering for all traffic.

Top applications



Dedicated cloud and application connectivity

NTT's Tier-1 internet backbone that connects our global data centers, cloud centers and hyperscalers enables our clients to experience optimized network performance.

Our SD-WAN is cloud-ready by design with dedicated connectivity to public and private cloud services. We provide secure optimized access to cloud and SaaS applications, and interconnect with all major public cloud providers, including:

- Amazon Web Services™
- Microsoft Azure™
- Google Cloud Platform™

In addition, we provide direct interconnection to the web via secure gateways and to the network of any partners.

Network functions virtualization

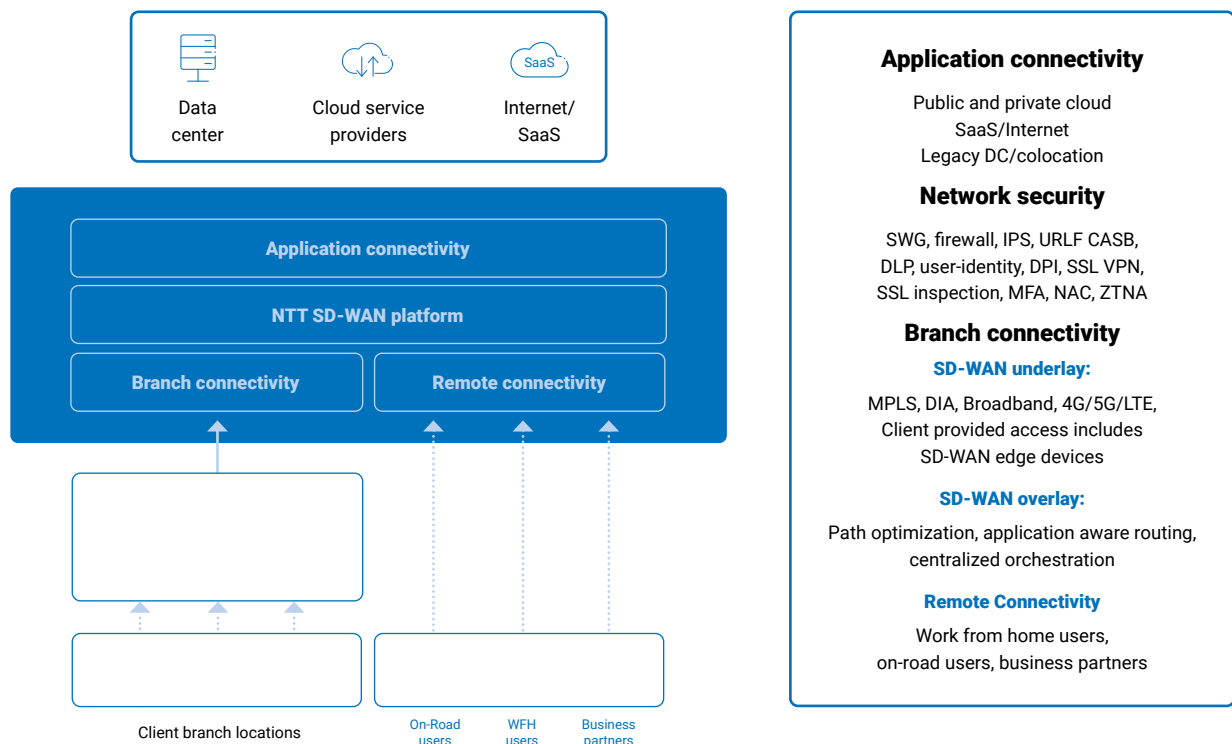
We deploy virtual network functions from over 75 local cloud centers into asset-lite branches for faster time to market and increased agility. We also provide a customer portal to allow you to make changes to your network functions directly. Service chaining of network functions eliminates the need for multiple network devices at the branch. Functions include:

- SD-WAN hubs/gateways
- secure web gateways
- SSL VPN
- unified communication (UC) and SIP Voice
- URL filtering
- firewall and IPS
- load balancing
- application acceleration

Unrivaled branch connectivity

We offer unrivaled connectivity options to converge public internet and private network connectivity into a seamless hybrid network. We have relationships with over 1,000 local providers and ISPs worldwide with deep insight into their performance. This allows us to pick the best combination of speed, resilience, and performance for each site – including MPLS, dedicated internet, broadband internet, and 4G/5G/LTE.

Our branch connectivity service also includes managed smart SD-WAN edge devices, which together with the SD-WAN platform form the SD-WAN overlay. They can either be provided directly, or we can repurpose and manage your existing SD-WAN edge devices after an initial assessment.



Full infrastructure management

Your network is a cohesive fabric that also includes the infrastructure within your sites. With infrastructure management for your branch and remote locations, we can deliver an optimized end-to-end experience from the cloud through to the end-user. Our integrated platform gives you a single experience across SD-WAN, LAN, security and cloud networking. To deliver this, we monitor and manage branch infrastructure and devices, including:

- Local area network (LAN)
- Security
- Unified communications
- Wi-Fi
- 4G/5G/LTE



Contact us

NTT offers a full portfolio of network services and infrastructure assets to assist you in every step of your network and business transformation. Including network consulting, managed SD-WAN, managed campus networks, managed underlay and network support services, and an award-winning tier-1 global IP Network to underpin your business objectives.