

Lumen® SASE Solutions with Fortinet Secure SD-WAN

A unified WAN edge, powered by a single OS, to transform and secure the WAN

Lumen SD-WAN with FortiClient, a Fortinet Security Fabric integration, provides endpoint visibility through telemetry and enables all the Security Fabric components - FortiGate, FortiAnalyzer, EMS, managed APs, managed Switches, and FortiSandbox - to have a unified view of endpoints in order to provide tracking and awareness, compliance enforcement, and reporting. Traditional virtual private network (VPN) tunnels or new, automatic ZTNA tunnels provide secure remote connectivity. Provide security and protection for endpoints when local or remote. Fortinet's Security-driven Networking strategy tightly integrates an organization's network infrastructure and security architecture, enabling networks to transform at scale without compromising security.

Enhanced user experience



An application-driven approach provides broad application steering with accurate identification, advanced WAN remediation, and accelerated cloud on-ramp for optimized network and application performance.

Efficient operations



Simplify operations with centralized orchestration and enhanced analytics for SD-WAN, security, and SD-Branch at scale.

Accelerated convergence



The organically developed, purpose-built, and ASIC-powered SD-WAN enables thin edge (SD-WAN, routing) and WAN Edge (SD-WAN, routing, NGFW) to secure all applications, users, and data virtually anywhere.

Core components

- FortiGate helps reduce cost and complexity with next generation firewall, SD-WAN, and advanced routing on a unified platform that allows customers to eliminate multiple point products at the WAN edge.
- FortiOS: Fortinet's unified operating system delivers a security-driven strategy to secure and accelerate network and user experience. Continued innovation and enhancement enable real-time application optimization for a consistent and resilient application experience.
- Fortinet's Fabric Management Center helps simplify centralized management, deployment, and automation to help save time and respond quickly to business demands with end-to-end visibility. With a single pane of glass management that offers deployment at scale, customers can

centrally manage 100K+ devices, including firewalls, switches, access points, and LTE/5G extenders from a single console.

- FortiGuard Security Services Enhances SD-WAN security with advanced protection to help organizations stay ahead of today's sophisticated threats.



Features and Specs

Application Identification and Control

5,000+ application signatures, first packet identification, deep packet inspection, custom application signatures, SSL decryption, TLS1.3 with mandated ciphers, and deep inspection.

SD-WAN (Application aware traffic control)

Granular application policies, application SLA based path selection, dynamic bandwidth measurement of SD-WAN paths, active/active and active/standby forwarding, overlay support for encrypted transport, Application session-based steering, probe-based SLA measurements.

Advanced SD-WAN (WAN remediation)

Forward Error Correction (FEC) for packet loss compensation, packet duplication for best real-time application performance, Active Directory integration for user-based SD-WAN steering policies, per packet link aggregation with packet distribution across aggregate members.

SD-WAN deployment

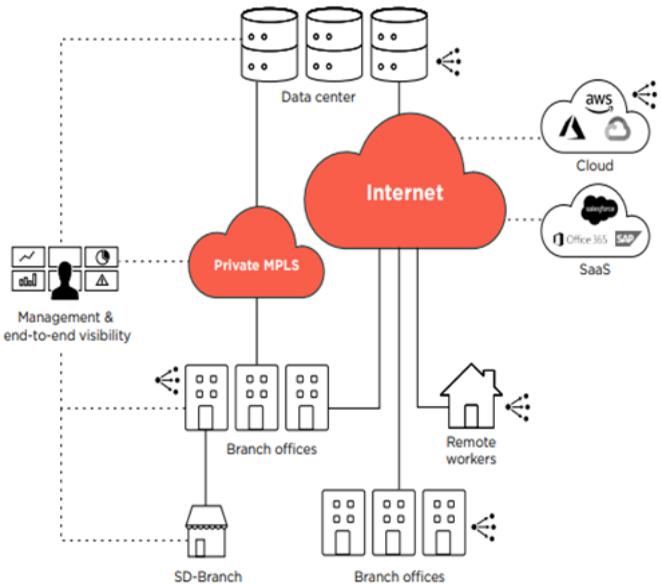
Flexible deployment - hub-to-spoke (partial mesh), spoke-to-spoke (full mesh), multi-WAN transport support.

ASIC accelerated SD-WAN

Self-healing capabilities for enhanced user experience

Single and high availability virtual instances for Azure and AWS

Cloud on-ramp for efficient SaaS adoption



Why Lumen?

Lumen has one of the most deeply peered global IP backbones, 6,300+ interconnects*, and 50+ low-latency edge nodes for optimized application performance and cloud access. Lumen has been an Expert-level Fortinet partner since 2007.

*CAIDA, AS Rank, January 2025

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