Lumen® SD-WAN Solutions

Automated security, optimized performance and intelligent scalability for driving digital innovation.

Lumen managed and co-managed SD-WAN solutions help reduce the complexity and business risk of network transformation on a single, automated platform that coordinates the full spectrum of connectivity types. Our tools, technology and hands-on expertise provide the ability to design, deploy and evolve with business needs while maintaining complete visibility, security and control.

**Benefits**

**Accelerated network agility**
Manage and make changes to routing and user policies, traffic thresholds, and security controls in near real time across your entire network.

**Operational efficiency**
Managed services supplement in-house resources with highly skilled experts to help design, configure, deploy and manage your network, freeing up valuable IT resources for other projects.

**Maximized app performance**
Prioritize essential apps, dynamically route traffic, automatically mitigate performance issues and deploy app-aware failover to help ensure continuous access to critical cloud-based resources.

**Enhanced resiliency**
Make your hybrid network failsafe by deploying active/active connectivity that’s balanced under normal conditions and automatically reroutes if one connection goes down.

**Automated network intelligence**
Enable automatic routing by user group, application, traffic thresholds or site location to deliver latency-minimized, prioritized traffic management for critical and sensitive traffic.

**Frequent use cases**

**Software-defined branch management**
Bring multiple branch, campus, retail, data center, colocation and cloud locations under a single network umbrella with uniform policies and security protocols.

**WAN optimization**
Seamlessly integrate public and private transport and intelligently route traffic to effectively utilize bandwidth while eliminating bottlenecks, backhauling and passive connectivity.

**Software-defined security**
Minimize security risk across your enterprise, including remote and branch locations, with constant visibility, centralized security management and policy from a single dashboard.

“Lumen enhances customer value by building its hybrid networking capabilities, such as MPLS, dedicated internet, broadband, and wireless access around its managed SD-WAN services”

— Roopashree Honnachari  
Senior Industry Analyst, Frost & Sullivan
### Standard options and capabilities

**Connectivity and design**
- Can be deployed on-premises, as a virtual machine in the cloud or data center, as a virtual network function (VNF) on a universal CPE (uCPE) with Lumen transport or as an over-the-top solution
- Configuration and management of performance-based, application-aware and user-level routing

**Management and control**
- Centralized portals for complete visibility and co-management
- Interactive analytics dashboards and custom reports for monitoring
- Dynamic path selection for load balancing and resiliency
- Intelligent path selection with site split tunneling

**Security and insights**
- Robust, integrated security controls (NexGen firewall and unified threat management)
- Policy-driven, centralized control through a single interface

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**Lumen® SD-WAN solutions feature comparison chart**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Lumen® SD-WAN with Versa Networks</th>
<th>Lumen® SD-WAN with VMware</th>
<th>Lumen® SD-WAN with Cisco Viptela</th>
<th>Lumen® SD-WAN with Cisco Meraki</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intelligent routing and control</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Forwarding paths</td>
<td>2 or more</td>
<td>2 or more</td>
<td>2 or more</td>
<td>2</td>
</tr>
<tr>
<td>SD-WAN cloud instance support</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SD-WAN throughput</td>
<td>Up to 10 Gbps</td>
<td>Up to 10 Gbps</td>
<td>Up to 10 Gbps</td>
<td>Up to 2 Gbps</td>
</tr>
<tr>
<td>Wi-Fi</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Enterprise firewall</td>
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<td>●</td>
<td>●</td>
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<td>Data analytics</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Customer self-service</td>
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<td>●</td>
<td>●</td>
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<tr>
<td>Global availability</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Locations supported</td>
<td>No minimum</td>
<td>10 minimum</td>
<td>10 minimum</td>
<td>No minimum</td>
</tr>
</tbody>
</table>

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**Why Lumen?**

Lumen provides the fastest, most secure platform for next generation applications and data. We are a Tier 1 global WAN provider, delivering award-winning solutions¹ and services across ~450K route miles of fiber. With a deeply peered internet backbone and a CDN with 75+ Tbps of edge capacity, we provide traffic steering expertise, enhanced network management and visibility to see global threats before they impact your business.

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¹Awards include Metro Ethernet Forum’s 2019 SD-WAN Service Provider of the Year, Worldwide and North America; Frost & Sullivan’s 2019 Frost Radar Best Practices Award for Innovation Excellence in the North American Managed SD-WAN Services Market; and Light Reading’s Leading Lights 2020 Finalist for Most Innovative SD-WAN Service.