

# SD-WAN Comparison Chart

|                                       | Cisco  | Velocloud   | Versa  | Silver Peak   |
|---------------------------------------|--|---|--|---|
| <b>Advanced Security</b>              |  |   |  |   |
| <b>Advanced branch threat defense</b> | <p>Cisco's converged branch platform integrates real-time contextual awareness, security automation, and industry-leading threat prevention, malware protection, EAL4-certified perimeter defense, and web security.</p>   | <p><b>Limited</b><br/>Offers access-control lists, stateful firewall, and Network Address Translation only.</p> | <p>Offers integrated next-generation firewall and intrusion detection system.</p>                        | <p><b>Limited</b><br/>Offers access-control lists, stateful firewall, and Network Address Translation only.</p> |
| <b>End-to-end secure architecture</b> | <p>Site-to-site and remote-access VPN technologies, <a href="#">DMVPN</a>, <a href="#">GET VPN</a>, <a href="#">FlexVPN</a>, <a href="#">SSL VPN</a> help protect sensitive enterprise communications. NIST-approved, line-rate encryption secures data in motion.</p> |   |  |   |
| <b>Real-time threat intelligence</b>  | <p>Cloud-delivered, integrated security service for Cisco branch routers, providing protection against malware, botnets, phishing, and targeted online attacks at the DNS layer.</p>   | <p>Requires a third-party solution.</p>   | <p><b>Limited</b><br/>Supports an intrusion-detection system but not detection of DNS-layer attacks.</p> | <p>Requires a third-party solution.</p>   |

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| <b>Network as sensor and enforcer</b> | <p>Comprehensive network visibility with behavioral-based analytics enables faster anomalies detection and deeper forensics of internal and external threats.</p>                                       |   | <p><b>Limited</b><br/>Claims support for analytics-based anomaly detection.</p>   |   |
| <b>Trustworthy systems</b>            | <p>Secure development lifecycle is published and verifiable. Products have trust anchors, secure boot, and runtime prevention. Software is digitally signed.</p>  |   |   |   |
| <b>User Experience</b>                |   |   |   |   |
| <b>Application-aware WAN</b>          | <p>Monitor more than 1400 applications and network performance. Troubleshoot issues quickly. Deploy business-intent policies across the entire network with no probes or additional hardware.</p>       | <p>Claims to monitor more than 2500 applications. Offers application group support and application filter support.</p>  | <p>Claims to monitor more than 2000 applications and protocols. Offers application group support, application filter support, and application visibility and log support.</p>                           | <p>Supported via deep packet inspection and DNS snooping. Used in application steering, QOS, WAN optimization, and security policies.</p>   |
| <b>Application high availability</b>  | <p>Monitor path performance and apply what is learned to select the best network path for a given application. Effectively load-balance across paths while delivering ideal application-level SLAs.</p> | <p>Monitor path performance and apply what is learned to select the best network path for a given application. Effectively load-balance across paths while delivering ideal application-level SLAs.</p> | <p>Monitor path performance and apply what is learned to select the best network path for a given application. Effectively load-balance across paths while delivering ideal application-level SLAs.</p> | <p>Monitor path performance and apply what is learned to select the best network path for a given application. Effectively load-balance across paths while delivering ideal application-level SLAs.</p> |

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| <b>Enhanced application experience</b> | <p>Cisco's software- and hardware-integrated solution offers bandwidth optimization, application acceleration, and intelligent caching.</p>   | <p><b>Limited</b><br/>Integrated forward error correction and tunnel bonding-type features. Requires third party for WAN optimization.</p> | <p><b>Limited</b><br/>Integrated forward error correction and tunnel bonding-type features. Requires third party for WAN optimization.</p> | <p>Fully integrated WAN optimization and acceleration.</p> |
| <b>Seamless cloud extension</b>        | <p>Extend the WAN to any private and public cloud. Get broad hypervisor and cloud support, seamless network extension and mobility, and advanced cloud security features.</p>   |  |  |  |
| <b>Last-mile network resiliency</b>    | <p>Provide primary connectivity or backup communications. Cisco Advanced LTE Category 6 support offers network resiliency for business continuity, up to 150 times faster and with far lower latency than 3G links offer.</p> |  |  |  |
| <b>Agility</b>                         |   |  |  |  |
| <b>SDN controller and applications</b> | <p>Get <a href="#">software-defined networking</a> for the enterprise branch, campus, and WAN. A simple user interface and plug-and-play protocols automate policy-based application profiles.</p>                            | <p><b>Limited</b><br/>Limited to SD-WAN overlay only.</p>  | <p><b>Limited</b><br/>Limited to SD-WAN overlay only.</p>  | <p><b>Limited</b><br/>Limited to SD-WAN overlay only.</p>  |

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|--|--|--|--|---|
| <b>Open and programmable</b>                       | <p>Cisco offers NETCONF and YANG support across branch, WAN, and cloud platforms.</p>  |  |  |   |
| <b>Pay-as-you-grow services</b>                    | <p>Performance license upgrades add dedicated compute and storage resources for additional services.</p>   |  |  |   |
| <b>Software licensing packages</b>                 | <p><a href="#">Cisco ONE Software</a> suites make software buying simple. Instead of choosing from hundreds of separately priced software features, you purchase one software product, for predictable OpEx.</p> |  |  |   |
| <b>Virtualization</b>                              |  |  |  |   |
| <b>Enterprise Network Functions Virtualization</b> | <p>Simplify operations and deployment of virtual routing, security, and application services.</p>  | <p>Supports third-party VNF hosting.</p> | <p>Supports third-party VNF hosting.</p> | <p><b>Limited</b><br/>Available as a VNF.</p> |

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| <b>Native application hosting</b>     | <p>Automate workflows, configuration, and operation of lightweight network functions or third-party tools natively on our <a href="#">IOS XE</a> operating system.</p>              | <p>Available as a VNF.</p>   | <p>Available as a VNF.</p>   | <p>Available as a VNF.</p>   |
| <b>Integrated compute and storage</b> | <p>Includes local compute and storage resources for applications, network functions or services, data backup, and analytics.</p>  |  |  |  |
| <b>Services</b>                       |   |  |  |  |
| <b>Depth of services portfolio</b>    | <p>Provides a diverse and complete lifecycle of advisory, implementation, optimization, technical, managed, and training service offers for SD-WAN and intent-based networking.</p> | <p><b>Limited</b><br/>Limited portfolio of strategic planning and advisory services. Service delivery/ orchestration and analytics through Velocloud's Virtual Services' NSX SD-WAN solution relies on multiple virtualized network functions.</p> | <p>Multiservice capabilities for SD-WAN, including enterprise, managed, and cloud IP platform.</p> | <p><b>Limited</b><br/>Tiered Managed SD-WAN Service provides various levels of service: base, integrated, enhanced (optimization), and cloud optimization. Limited portfolio of strategic planning and advisory services as well as end-to-end solution support.</p> |

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| <b>Ease of getting started</b>           | <p>SD-WAN Advise and Implement Quick Start accelerates adoption with predefined project scope and budget to simplify implementation with validated best practices. Get centralized 24/7 support from expert engineers and a primary point of contact, accountable from first call to resolution.</p> | <p>Velocloud's NSX SD-WAN integrates with existing service provider networks for wide-area networking that integrates advanced services through a zero-touch deployment model. Offers a limited free trial evaluation.</p> | <p><b>Limited</b><br/>The managed SD-WAN solution has built-in service chaining to easily integrate with existing third-party network and security functions in the branch office. You can schedule a demo, but there are no free trials or quick-start offers.</p> | <p>Tiered Managed SD-WAN Service allows customers to add or upgrade software capabilities through their service provider. Within the Tiered Managed SD-WAN Service, Silver Peak offers the Unity EdgeConnect SD-WAN Solution that includes service chaining.</p> |
| <b>Strength of services for security</b> | <p>Technology-agnostic services create a security strategy to reduce implementation risks. Cisco Advanced Malware Protection (AMP) identifies and stops threats before, during, and after attacks. Business Critical Services provides an end-to-end view of security architecture.</p>              | <p><b>Limited</b><br/>Virtual service delivery is reliant on the cloud, which presents many security vulnerabilities, challenges, and threats. The Velocloud website is not secure.</p>                                    | <p>Managed services combine SD-WAN capabilities with a range of security functions using Versa VNFs. Virtual service delivery is reliant on the cloud, which presents many security vulnerabilities, challenges, and threats.</p>                                   | <p>Uses EdgeConnect simplified service chaining with cloud-based security gateways and next-generation firewall vendors. Virtual service delivery is reliant on the cloud, which presents many security vulnerabilities, challenges, and threats.</p>            |