

How Wise is Your WAN?

Managed SD WAN with Application Aware Routing



verizon

Designed. Delivered. Optimized. Together.

How do you keep up with skyrocketing demand for better application performance? Reaching more people in more places is just the beginning. Doing it quickly and reliably is another story. Adding costly high-performance MPLS circuits to match demand isn't always optimal, but can you rely on a less expensive public internet option? Is there a solution that can offer robust performance while managing cost, and without sacrificing security and resilience? With a software-defined wide area network (SD WAN), the answer is yes.

SD WAN is an advanced next gen networking approach that can help you shape your WAN to handle changes in internet traffic. SD WAN platforms create hybrid networks that integrate broadband or other network services into the corporate WAN. All while maintaining the performance and security of real-time and sensitive applications.

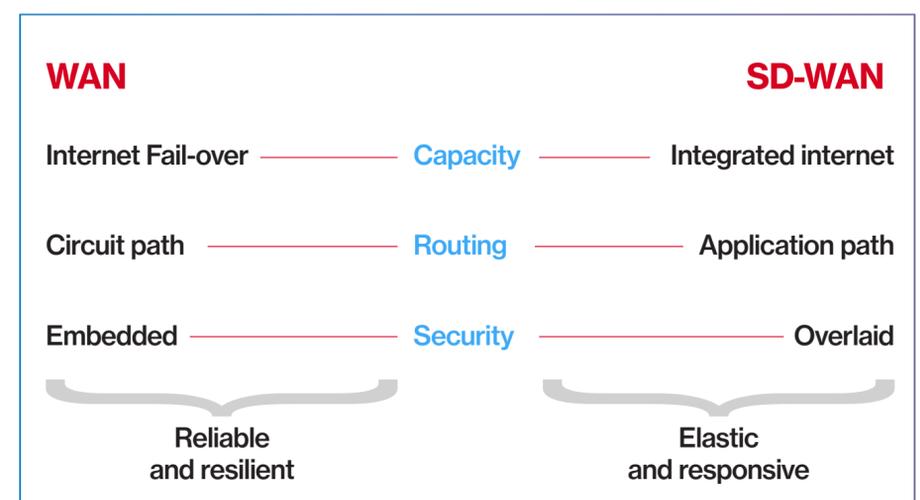
Powerful features require skilled oversight. Verizon has more than 25 years' experience managing and protecting customer networks.

Verizon and Cisco have teamed to bring you a Managed SD WAN with Application Aware Routing platform which measures and monitors performance of multiple services in your hybrid network.

It uses application routing to offer more granular control of where and when an application uses a specific service. This allows your enterprise to make better use of your network, because capacity that may have been dormant in fail-over networks is included in an active-active configuration.

Verizon's Managed SD WAN solution, leveraging Cisco's IWAN platform, also allows you to offload internet-bound traffic, which means private WAN services remain available for real-time and mission-critical apps. This added flexibility helps improve traffic flow and reduces pressure on your network.

Finally, with traditional private WAN services, security is normally embedded and centralized. Instead, Managed SD WAN overlays a single security policy, often in the form of virtual private network (VPN) tunnels, across the entire infrastructure. This single policy allows you to standardize your security across your network.



REDUCE RISKS ASSOCIATED WITH SD WAN.

SD WAN brings powerful new features and benefits, but along with those come additional complexity in security, quality of service (QoS), protocols, service types, devices, controllers and operating systems. And while you may want to adopt a hybrid platform, you may not have staff with the expertise to manage the challenges that inherently come with added complexity. Verizon Managed Services can support your SD WAN and help your enterprise move forward confidently with your implementation.

MIGRATE TO SD WAN WITH CONFIDENCE.

Many networking teams face challenges migrating to SD WAN. They may not have the tools, expertise or infrastructure to build and manage the solution. Verizon's Digital Advisory Services can help you bring complex projects – like hybrid networking – to life.

Get more from Verizon's and Cisco's portals, platforms and best practices to implement SD WAN with confidence.

These services include network strategy workshops, network discovery and assessment, network design and implementation, and a variety of technology-specific design, transformation and adoption strategy solutions, including:

- Application assessments to determine flow, performance thresholds and routing rules
- Feasibility assessments and recommendations to improve network performance and control costs
- Unbiased analyses of all options, including a hybrid network, adding additional bandwidth to the private network or other alternatives

IMPROVE BUSINESS RESULTS WITH SD WAN.

SD WAN can improve the efficiency of your network. It can also help your IT staff deliver services faster, improve service levels and focus more attention on business. But only if you manage it the right way.

Our Managed SD WAN with Application Aware Routing solution gives you the tools, monitoring, oversight and life-cycle support you need to maintain application

visibility and control – and support increased network use. By using our tested practices, processes, portals and platforms, as well as our people, you can absorb the new technology into your organization without making drastic changes.

Challenges of SD WAN	Benefits of our Managed SD WAN solution
Moving from a traditional, IP destination address, per- packet-based approach to an end-to-end, application- aware approach	Standardized SD WAN operational practice helps simplify consumption and speed transition while providing positive return on investment.
Security implications of public IP services and internet breakout options	Multiple security options, including cloud-based firewalls, provide flexibility to balance compliance and risk with performance.
Multiple access-service types, multiple service providers	We can bond multiple services into a single service with a unified view into performance reporting, change management and troubleshooting.
Moving from multiple in-house-managed and carrier- managed WANs to an overlay WAN	Global WAN SLA includes many third-party service providers.
Updating application routing rules as new users, applications and changing business patterns impact WAN performance	Tested change-management processes help you avoid unnecessary downtime from configuration errors.
Obtaining accurate application inventory and applying reporting metrics to improve routing and utilization	Our reporting platforms and processes observe, analyze and recommend changes based on application behavior.
Integrating new reporting and changing management platforms for application visibility	You can easily turn on and scale as-a-service platforms to support your growing implementation with project management oversight for delivery.
High cost of hiring, training, building and maintaining application-centric routing and management systems, people and monitoring platforms	We provide geo-diversified network operations centers, trained personnel and scaled, carrier-integrated management platforms with options for both shared and dedicated engineering resources.

We can help you connect users to applications simply, securely and reliably.

Our life-cycle management helps you develop a migration plan that suits your readiness now and in the future. This includes:

- Fault/configuration/change management of the underlying hybrid platform and transport services
- Instrumentation of path quality and management of associated thresholds and alarms
- Reporting on path quality, application prioritization, utilization, trending and changes in application path selection
- Proactive traffic management – refreshing application rules and path selection
- Troubleshooting performance degradation

SD WAN can improve throughput and application performance. For enterprise IT, this is just the first step toward aligning IT with the business. New technologies can help you improve visibility and speed to support growing cloud workloads and unpredictable user demands inside and outside the corporate network.

We can help you on your journey. Our managed-network platforms are now capable of providing you with a single view into application

performance and end-user impact. This allows you to break down IT silos that block fast service delivery. Our analytics platforms give you even more visibility, helping you make sense of the increasingly complex flow of apps and user transactions.

Our investments in next-generation networking and related virtualization products are paving the way to connect users securely and reliably. And we're constantly reshaping and reconfiguring to meet your changing business needs.

Our Managed Network Services portfolio frees you from the complexities of day-to-day management of your network and applications so you can focus on moving your business forward

Learn more.

Find out how partnering with Verizon and Cisco can help improve your IT operations and drive business growth. Contact your representative today.

www.getsdwan.com

Make your net *work.*



Designed. Delivered. Optimized. Together.

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