

# Build a wiser WAN.

## Managed SD WAN with Application Aware Routing



**Demand for cloud and mobile technologies is higher than ever. To keep up, you have to offer better application performance, because reaching more people in more places is just the beginning. Doing it quickly and reliably is another story. Some organizations have turned to the public internet to help make it happen. But can you rely on public IP services without sacrificing performance? With a software defined wide area network (SD WAN), the answer is yes.**

SD WAN is an advanced 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.

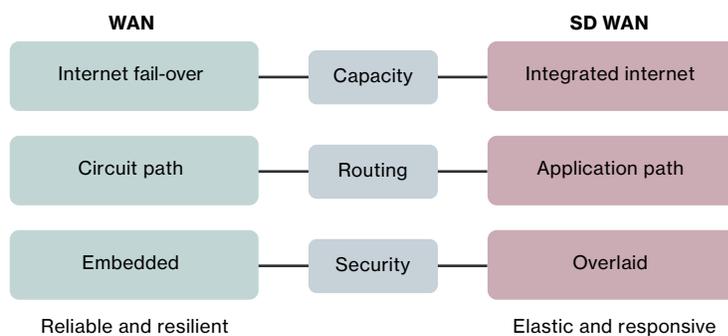
Our Managed SD WAN with Application Aware Routing platform measures and monitors performance of multiple services in your hybrid network. It uses application routing to offer more granular control of where and when an application uses a specific service. This

allows your enterprise to make better use of your overall network, because capacity that may have been dormant in fail-over networks is included in an active/active configuration.

Our Managed SD WAN 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

Powerful features require skilled oversight. We have more than 20 years' experience managing and protecting customer networks.



Our Managed SD WAN platform offers a number of distinct advantages over traditional WAN, helping to deliver faster, more reliable application performance.

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, but along with the many benefits comes

additional complexity in security, quality of service (QoS), protocols, service types, devices, controllers and operating systems. And while you may want to adopt hybrid platforms, you may not have staff with the expertise to manage the risks that come with that 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. Our Professional Network Consulting Services can help you bring complex projects—like hybrid networking—to life.

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

Get more from our portals, platforms and tested practices and processes to implement SD WAN with confidence.

**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 partners. 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.
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.

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

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

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### **Connect new sites to SD WAN quickly.**

Once an SD WAN hub site is active, you can connect new sites to your software defined network in as little as eight\* days using SD WAN with Express Connect. Once connected, you can use Express Connect's wireless access as backup to keep your new sites running no matter what the world throws at them.

### **Move beyond SD WAN.**

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 can help you improve your IT operations and drive business growth. Contact your representative today.

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\*Eight business days turn-around time upon a completed order verification call.