



SD-WAN SOLUTIONS FOR MICROSOFT OFFICE 365 AND AZURE



As school districts utilize a growing number of **cloud-based applications**, it becomes difficult to maintain optimized higher speeds and connectivity with **traditional WAN networks**. MPLS (Scaling MultiProtocol Label Switching) as a solution is costly and time-consuming. SD-WAN has emerged as a cost-effective solution that can deliver agile and efficient results which were unimaginable with traditional WAN networks.

Software-defined wide-area network (SD-WAN) is a service which enables the school districts to dynamically connect branches and data centers on a global scale and optimize how data moves between branches, data centers, and the cloud.

SD-WAN solutions have a very impressive track record **lowering WAN costs, improving application performance, user satisfaction, and continuity**. As an SD-WAN solution provider, X10 Technologies also offers a consultancy service to define which features are important to your organization. This is essential in choosing the best SD-WAN solution for your needs.

Evolving Needs for WAN Network Architecture

Mission-critical SaaS applications (such as Office 365) are required to scale for high-performance because of the ever-increasing number of the users and devices in branches. Traditional methods, such as backhauling traffic to a centralized hub for network egress/breakout, have led to poor user experiences due to high latency and congested links. In addition, traditional network security inspection (by inline decryption) of traffic on complex SaaS protocols (Exchange and Sharepoint Online, Skype for Business/Microsoft Teams) have become inefficient due to unnecessary overhead and performance bottlenecks. This has caused availability, interoperability, and supportability issues.

SD-WAN solutions for Office 365 Support for Azure Policies

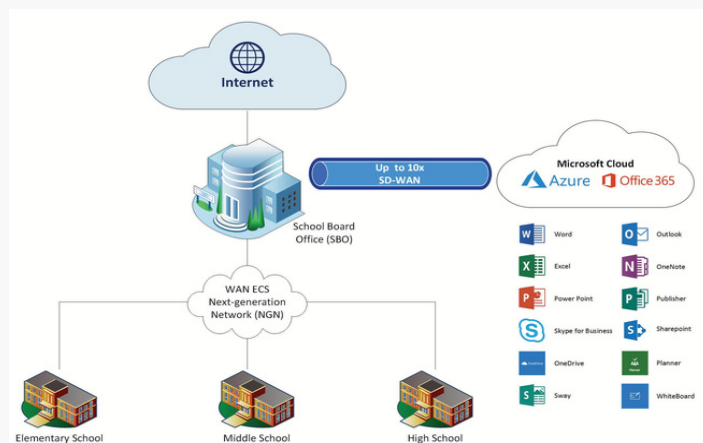
In order to minimize latency caused by backhauling traffic through data center and improve the user experience, school districts can now enable direct Internet breakout of Office 365 applications from branches. This eliminates hair-pinning of key Office 365 through remote cloud data centers, network security appliances, allow, and then egress to the nearest Office 365 "Front Door", proxies, and secure web gateways. This also frees up various WAN links for other traffic. Microsoft's concept brings services as close to their customers' as possible by directing connections to the closest Microsoft "Front Door" of Office 365 services. These have been proven to have a significantly wider reach than the limited set of data centers where the data for a particular user is stored and replicated. Administrators don't need to send web gateway since Microsoft provides Office 365 native security features enable to reduce the network security risk including Data Loss Prevention, Anti-Virus, Multi-Factor Authentication, Customer Lock Box, Advanced Threat Protection, Office 365 Threat Intelligence, Office running, 365 Secure Score, Exchange Online Protection, and Network DDOS prevention.

Partnership

X10 Technologies partners with leading SD-WAN providers to ensure each customers' network performs at optimum levels, while meeting business needs and delivering the best return on investment.

Perfect Fit for School Districts

SD-WANs enable school districts to manage various types of internet connections, including broadband, MPLS, and 3G/4G/LTE with better provisioning tools to QoS specific traffic types. Rather than deploying scripts or commands to individual routers, identifying the issue and deploying a solution at a network level is much easier and faster when an error occurs in the network. SD-WAN optimization features allow administrators to shape bandwidth and define a hybrid network route for critical traffic through high-speed channels leaving slower connections for auxiliary traffic. The traffic priority of various applications can be evaluated as critical or non-essential, ie., social media applications can be decreased. Office and Exam applications can be profiled as a high priority. All traffic can be optimized.



Benefits of SD-WAN Solutions

- ✓ Improved application performance and quality of service for remote and branch workers
- ✓ Reduced WAN costs and scaled capacity through the use of lower-priced broadband and mobile connections
- ✓ Increased flexibility to prioritize business-critical applications over other network traffic
- ✓ Improved business continuity and disaster recovery capabilities that maintain connectivity even during multiple network failures.
- Increased connection security across the WAN as applications and data migrate to the cloud
- Reduced branch networking complexity by consolidating services into an integrated WAN edge appliance and centralizing management and policy definition.



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