

# EXTENDING NSX SD-WAN BY VELOCLOUD TO MICROSOFT OFFICE 365

As workloads migrate to the cloud, limited WAN bandwidth, quality, and cost of private links have become a big concern to enterprise IT. The rise of SaaS and IaaS through providers such as Microsoft further adds the need for IT to look for scalable, secure and optimized access to SaaS from remote branches. Legacy VPN technologies offered by vendors to access subscription services like Office 365 are complex, time consuming and often lack enterprise grade performance and security.

## VMware NSX SD-WAN by VeloCloud

NSX SD-WAN by VeloCloud aggregates available branch WAN connections such as Internet Broadband, MPLS private lines, wireless LTE, and performs dynamic application aware per-packet link steering and path conditioning to deliver enterprise class quality for the most demanding applications. In addition, NSX SD-WAN has a unique globally distributed network of cloud gateways infrastructure, that brings SD-WAN to the doorstep of major SaaS providers, such as Office 365. NSX SD-WAN Orchestrator is a management and monitoring portal that greatly simplifies deployment efforts from hundreds of lines of CLI box by box to a couple of clicks on the user-interface from one source and distributes to all branch sites.

## Extending NSX SD-WAN to Office 365

NSX SD-WAN enables enterprises to rapidly and cost-effectively leverage world-class SD-WAN capabilities with Office 365. NSX SD-WAN on Office 365 brings the same optimization, security, simplified operations, and uncompromised user-experience that VeloCloud provides for the most demanding networks and applications in the world.

This joint solution between NSX SD-WAN and Office 365 has compelling use cases that not only support the immediate needs of today's enterprises and service providers, but also the ongoing evolution from legacy computing infrastructures to a cloud-first strategy.

### Simple Design and Availability

With NSX SD-WAN, Office 365 will be able to offer customers a range of flexible deployment options, including topology designs that require minimal changes to existing networks. Enterprises will be able to connect to Office 365 through globally distributed NSX SD-WAN hosted gateways. Customers will benefit from simplified network design and reduced complex custom configurations at individual branch locations. NSX SD-WAN will enable enterprises to securely support application growth and automate business policy and control for applications.

With NSX SD-WAN, enterprises can aggregate broadband Internet, 4G-LTE, and MPLS circuits with application-aware per-packet link steering and on-demand remediation to achieve optimal performance for last mile transport destined for Office 365.

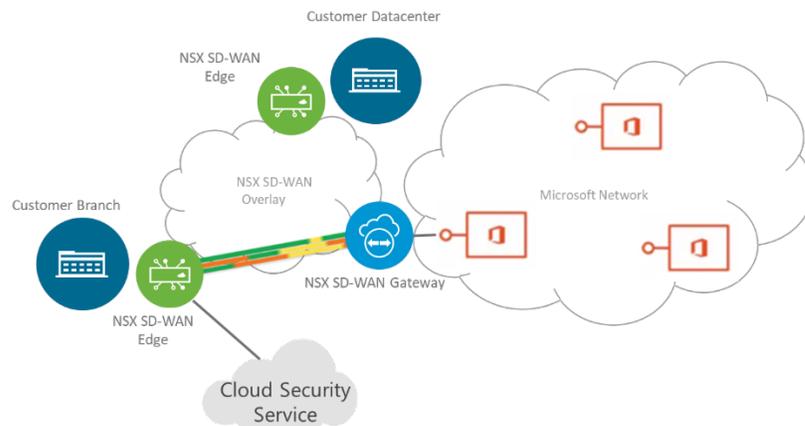


Figure 1: NSX SD-WAN Edge connectivity to Office 365 via NSX SD-WAN Gateways

VeloCloud, now part of VMware supports and endorses the joint partnership by ensuring we meet the key [principles](#) that Microsoft has outlined for secure and reliable connectivity to Office 365. The joint solution has the following benefits:

- Ease of configuration through simplified business policies
- Dynamic path optimization for last mile internet traffic to Office 365 by leveraging unique NSX SD-WAN Cloud Gateway network.

### Key Differentiators:

- NSX SD-WAN Orchestrator recognizes Office 365 traffic by using Microsoft web-services APIs for optimal connectivity.
  - NSX SD-WAN dynamically connects to the closest Microsoft end-points with appropriate DNS name resolution, enabling seamless and efficient connectivity.
  - Customers can easily enable local and direct internet breakout for Office 365 traffic. NSX SD-WAN also enables a business-policy driven network topology allowing customers to easily route Office 365 traffic directly via NSX SD-WAN Gateways reducing hair pinning of traffic and avoiding datacenter backhaul.



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- NSX SD-WAN Orchestrator supports simple business-policy creation, enabling customers to directly send Office 365 traffic to the Microsoft Network without having to go through cloud-security or other network security measures already available in Office 365.

### Flexible Deployment Options

Customers have flexibility in identifying, prioritizing and classifying Office 365 traffic based on their business policies in a simple and automated manner. Connectivity to Office 365 is automated and dynamic, allowing scale and ease of use.

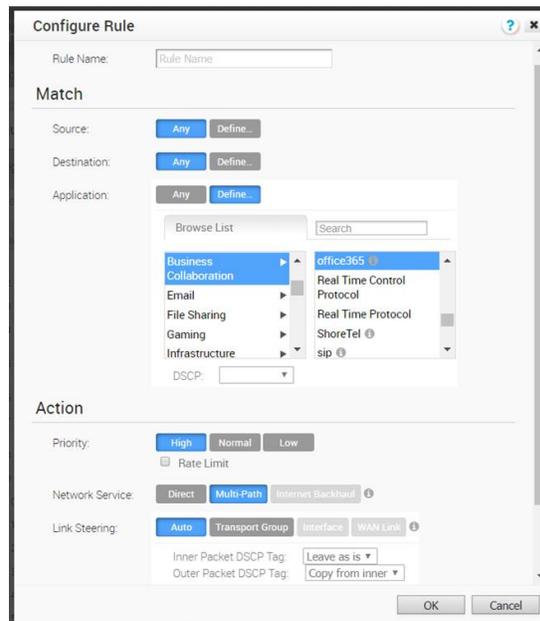


Figure 2: Default and automated policy settings for Office 365 in NSX SD-WAN Orchestrator

### Summary

NSX SD-WAN by VeloCloud mitigates major WAN challenges today with unique application aware dynamic multi-path optimization technologies and advanced cloud infrastructure. It can also be extended to SaaS applications such as Office 365 to ensure consistent and outstanding user-experience.



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