

# Shifting Security to the Edge with Citrix SD-WAN

## A Full Edge Security Stack to Protect Your Direct Internet Path

The rapid shift to the cloud requires a rework of the outdated hub-and-spoke network model to a direct internet breakout approach. Backhauling cloud traffic over MPLS to a centralized hub for secure internet egress puts strain on existing bandwidth which is not easily or cost-effectively scalable and the inefficient routing can cause latency.

The proliferation of networking and security devices in each branch results in decentralized management and added complexity. Organizations require a more direct model for accessing cloud apps. But, that comes at a hefty price – it increases the risk for cybersecurity threats to enter the corporate network.

Citrix SD-WAN makes it possible with a built-in edge security stack allowing the internet to be a trusted connection method for the enterprise network. Its next-generation firewall capabilities protect against zero-day threats, malware and prevent undesirable or inappropriate content and applications from being accessed. IT can readily deliver consistent security policies from a cloud-based, single-pane-of-glass orchestrator reducing the inevitable complexities stemming from deploying, configuring, and managing multiple products from multiple vendors.

### Cloud-Managed Edge Security

Infrastructure and operations teams can use Citrix SD-WAN to consolidate edge infrastructure while centrally managing it all. Citrix SD-WAN's integrated security stack is built to secure the WAN edge. This comprehensive next-gen security stack includes:

### Next-Gen Security Stack

#### Firewall

- A built-in, application-aware stateful firewall integrates with application QoS to allow centrally-defined security policies to limit or reject application traffic

#### IDS/IPS

- Signature-based IPS effectively mitigates sophisticated threats
- 34,000+ signature detections for a variety of attacks
- New attack signatures automatically updated
- Automated signature updates to ensure protection against latest attacks

## URL Filtering

- Protection from web-borne malware and misused bandwidth
- Categorizes the largest URL database of its kind across 79 categories, 750+ million domains, and 32+ billion URLs classified across 45+ languages. Additionally, 6 million dangerous IPs correlated with URLs
- Reporting and event logs tell you how your network is being used (or abused)

## Anti-Malware

- Defense against zero-day threats, viruses, worms, Trojan horses, botnets, unknown malware, and new infections
- Protects against the full range of internet traffic: HTTP, FTP, and SMTP
- Decompresses and scans archives and compressed files protecting against complex archive bombs
- Detects infected clients that join your network and prevents them from calling home
- Powered by Bitdefender

## Use Cases

1. Protect against security attacks that originate from direct branch access to the internet and cloud
2. Block threats by stopping lateral propagation of threats from branch to branch or within the branch.

## Benefits

- **Superior connectivity and application performance:** Zero-touch provisioned platforms that enable the use of multiple WAN circuit types including MPLS, broadband Internet and wireless 4G and LTE connections with the ability to detect over 4,500 SaaS, cloud, and virtual applications in real time (packet-based) and sub-second failover to ensure the highest network resiliency.
- **Manage from a single pane of glass:** You get simplified management for both edge security and SD-WAN through a single pane of glass with Citrix

SD-WAN Orchestrator. This eliminates the hassles of dealing with multiple vendors, licenses, and management dashboards.

- **Actionable visibility:** You gain insight into trends across the network to understand the security risks that require you to act. Drill down into granular site level reports to see top activities/categories per device or network in real time.

[Citrix SD-WAN Orchestrator](#) helps your organization to manage both SD-WAN and the integrated edge security stack from a central location so your IT department can focus on app experience and performance without compromising on security. It doesn't matter where your apps reside — in your data center or in the cloud — or whether you access them via the local internet path or by backhauling traffic over the WAN. You can now have a world-class app experience and an always-on network while addressing your security needs.

## SD-WAN First

Citrix takes a strong application-centric SD-WAN solution and integrates comprehensive security at the edge keeping the network at the forefront. By combining advanced security functionality with world-class networking capabilities, SD-WAN delivers a high-quality user experience at your branch offices while reducing cost and complexity.

This gives users an unparalleled application experience at the branch without compromising on security when accessing Internet and SaaS applications directly.

Review the Citrix SD-WAN [security story](#) and get started now.