SD-WAN Security
Right security, right place

Protect users, connected devices, and all traffic across the WAN

To help with the ever-increasing adoption of multicloud environments, SD-WAN offers total transport flexibility to connect directly with the cloud using the internet. The network efficiency that comes with SD-WAN creates a better user application experience and reduces cost for organizations. Unfortunately, all these benefits have a tradeoff – rearchitecting the enterprise WAN and branch networks into SD-WAN creates exposure to threats and additional security complexity.

How do you protect your newly implemented SD-WAN against internal and external threats? If you plan to deploy additional security devices or services on-prem, in cloud, or both, could you scale easily for future traffic growth? How do you solve the complexity of deploying and managing your security solutions from multiple vendors? How about your visibility into traffic to or across branches and data centers?

Cisco SD-WAN offers engineering leadership in both networking and security to include full-stack multi-layer security capabilities on the platform and in the cloud. Its integrated on-prem and cloud security arms IT with advanced threat defense wherever it is needed – for branches connecting to multiple SaaS or IaaS clouds, to data centers, or everything on the Internet.

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Cisco SD-WAN offers an integrated on-prem and cloud security solution spanning four security categories: network segmentation, enterprise firewall, secure web gateway, and DNS-layer security. Each security category itself spans a different combination of security features. These security features are:

**IPSec Encryption:** An underlying WAN fabric for securing on-prem WAN access and direct internet access

**IPS:** A built-in intrusion prevention system within on-prem enterprise firewall based on Snort and powered by Talos

**App Controls:** A built-in security practice within every part of the security stack, able to control 1400+ apps using on-prem enterprise firewall

**Malware Protection:** An extended security feature across both on-prem and cloud security using Cisco AMP and Threat Grid to prevent/detect malicious files with sandboxing

**SSL/TLS Decryption:** A security feature with unlimited scale for either cloud security or on-prem security with sufficient resources.

**URL Filtering:** An extended security feature across both on-prem and cloud platforms with 80+ web categories covering millions of domains and billions of web pages

**Key SD-WAN security use cases**

**Secure direct internet access**
Cisco SD-WAN provides centralized control of the flow of internet-bound traffic using built-in security features. The integrated security solutions provide the best balance of security and user experience for direct internet access.

**Secure end-to-end segmentation, at scale**
In addition to extending branch segmentation into the data center and the cloud, Cisco SD-WAN protects users and devices within a specific segment from any internal and external threats. With Cisco SD-WAN you are able to manage segmentation policies across the entire network from a single pane of glass and to adapt automatically to any network’s changes.

**Enforce regulatory compliance**
Cisco SD-WAN addresses compliance in a holistic way by offering a comprehensive set of security controls.

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**Security benefits of Cisco SD-WAN:**

- **Constant protection against all internal and external threats from branches to IaaS.**
- **Improved user experience via secure direct internet and cloud access.**
- **Centralized visibility and control for all internal, inbound and outbound traffic.**
- **Reduced cost and complexity using a single product for networking, security, and cloud.**

**Learn More**
To learn more, please visit cisco.com/go/sdwan-security or contact your account representative.