

# Cisco SD-WAN with AWS Cloud WAN

The public sector's answer to faster, more efficient data transfer



## Challenges

### Public institutions' growth and change require new tools for dynamic network management

As agencies in the public sector seek to modernize their networks, they need to think about how to best design a hybrid infrastructure that seamlessly integrates their on-premises technology. In addition, they want to improve connectivity and performance in a cost-efficient manner without incurring tool sprawl.

As remote work expands across regions or agencies introduce new office locations, achieving fast connectivity from anywhere, securing visibility, and maintaining compliance for wide area networks can be a challenge. Employees require convenient access and a reliable connection in order to remain productive despite the increased complexity of hybrid connectivity routes.



## The Solution

### Cisco SD-WAN with Amazon Web Services (AWS) Cloud WAN for hybrid network management

Institutions that currently use Cisco SD-WAN for their on-premises systems can enhance connectivity and simplify network management in their hybrid environments with AWS Cloud WAN. Together, they create a comprehensive networking solution that offers centralized management, optimized traffic routing, improved scalability, and cost efficiency.

This collaboration between AWS and Cisco streamlines the process of establishing worldwide networks. Institutions can accelerate their cloud transformation journey with on-demand consumption to connect to their AWS workloads from any network, anywhere, at any time. AWS Cloud WAN offers public agencies using Cisco SD-WAN the ability to leverage the global infrastructure of AWS on demand, simplifying connectivity across continents for their branch offices. By integrating Cisco SD-WAN solutions with AWS Cloud WAN, institutions can effortlessly and securely connect their on-premises sites and AWS workloads.



## Benefits

### Cisco SD-WAN paired with AWS Cloud WAN connects across all environments

Implement a secure, scalable, and cost-effective network solution for hybrid cloud journeys and middle-mile networks-with all the benefits of single platform management over a private cloud.

### Quick onboarding

Reduce network deployments from weeks to hours and provision a global cloud network on demand using an automated process.

### Cost efficiency

Adopt an on-demand and pay-as-you-go consumption model from AWS for global networks to keep operating costs down. Agencies can lower their total cost of ownership by significantly reducing multi-region deployment time with automated provisioning, dynamic routing, and automated segmentation.

### Security and compliance

Gain secure access to workloads across the AWS cloud. Cisco Catalyst SD-WAN with AWS Cloud WAN delivers secure cloud and middle-mile networking with end-to-end encryption over the AWS private backbone and native segmentation applied across global site-to-site, site-to-cloud, and cloud-to-cloud environments. Enact global policy to control inter-segment routing and firewalling.

### Smoother management

Cisco SD-WAN and AWS Cloud WAN unifies and simplifies management with an intuitive workflow, allowing agencies to auto-discover VPCs, launch cloud gateways, and provision policy-based segments through a single portal. Streamline operations for mutual AWS and Cisco SD-WAN (Catalyst and Meraki) users with multi-region deployments. Automate and simplify the provisioning process through Cisco vManage or Cisco Meraki for a simplified network design. Define a multi-region, segmented, dynamically routed network with an intent-driven policy in just a few clicks.

### Secure global networking

Together, Cisco Catalyst SD-WAN and AWS Cloud WAN with Tunnel-less Connect help connect enterprise sites and cloud workloads, using the Cloud WAN over AWS backbone. This high-bandwidth integration provides fast, secure, and private middle-mile networking for inter-office and office to cloud connectivity over internet, direct-connect, or via IPsec or GRE-based tunneling.

### Better performance

The integration delivers a high-performance, dynamic SD-WAN fabric along with improved application performance through a guaranteed service-level agreement and consistent uptime of 99.99% across a global network, with monitoring capabilities for the underlay as well as overlay.



## Practical applications of Cisco SD-WAN and AWS Cloud WAN

Public agencies can seamlessly integrate their on-premises infrastructure with AWS using Cisco SD-WAN and AWS Cloud WAN. They can do this while leveraging a broader set of AWS services, supporting scalability, and saving money.

1

### Site to AWS Cloud

Automate Cisco Catalyst SD-WAN fabric extension to access AWS workloads, keeping the control with enterprise IT.

2

### Cloud region to cloud region

Leverage segmentation policies to allow AWS workloads in different regions to communicate securely.

3

### Site to site

Simplify SD-WAN provisioning for regional site aggregation and optimize site-to-site connectivity using the AWS global cloud network as the middle mile.



**If your answer is “yes” to any of these questions, then Cisco SD-WAN and AWS Cloud WAN are right for your institution. Is your agency:**

- Deployed across multiple AWS regions and want to establish connectivity from their SD-WAN branches to their global workloads?
- Looking for alternative middle-mile network connectivity options that offer flexible consumption, reliability, and reduced costs compared to traditional options?
- Wanting the segmentation options, end-to-end security, and private backbone available with AWS Cloud WAN and Cisco Catalyst SD-WAN for secure cloud and middle-mile access?
- Needing a managed solution for their cloud workloads' connectivity?
- Considering or using both Cisco Catalyst SD-WAN and AWS today?

**Get started with Cisco SD-WAN and AWS Cloud WAN by visiting the AWS Marketplace or speak with your Cisco representative about private offers in [AWS Marketplace](#).**