

# Cisco Catalyst SD-WAN with AWS Cloud WAN

## Overview

### Q: What is the Cisco Catalyst™ SD-WAN with AWS Cloud WAN solution?

A. Cisco and AWS have co-innovated to create a unique, dynamic WAN service that allows building of a global network using automation for intuitive network management and a central policy framework for advanced security. The Cisco and AWS integration allows you to traverse the AWS global backbone to access workloads from anywhere, provide site-to-site communication, and allow interregional workload connectivity. Cisco Catalyst SD-WAN with AWS Cloud WAN delivers a secure, flexible, and highly available middle mile leveraging the global AWS backbone. The joint networking solution enables simplified management, on-demand deployment, and optimized performance.

### Q: What benefits does the Cisco Catalyst SD-WAN with AWS Cloud WAN solution offer?

A. Cisco Catalyst SD-WAN provides enterprise customers with simplified management and automated provisioning via the following:

- **Secure and resilient cloud access:** 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 common segmentation applied across global site-to-site, site-to-cloud, and cloud-to-cloud environments.

- **Simplified IT:** Remove operational complexity and deploy a global network on demand in minutes. The Cisco and AWS joint solution simplifies management and operations with full network stack automation, centralized provisioning, and orchestration via Cisco Catalyst SD-WAN Manager.
- **Increased performance and visibility:** 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.

\* For multi-availability zone (multi-AZ) deployments – [AWS Cloud WAN Service Level Agreement](#).

### Q: What makes Cisco Catalyst SD-WAN with AWS Cloud WAN unique?

A. Cisco Catalyst SD-WAN with AWS Cloud WAN is unique because the integration is centered around a co-innovated architecture that is designed for higher performance and provides a more comprehensive networking solution than traditional networking. It offers simplified management through automation via a single portal and greater security with native segmentation and unified global policy across SD-WAN and cloud environments.

### Q: Who is the solution designed for?

- A.
- Organizations with deployments across multiple AWS regions who want to establish connectivity from their SD-WAN branches to their global workloads.
  - Organizations looking for alternative middle-mile network connectivity options that offer flexible consumption, reliability, and reduced costs compared to traditional options.
  - Organizations wanting to leverage 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.

- Organizations looking for a managed solution for their cloud workloads' connectivity.
- Organizations considering or using both Cisco Catalyst SD-WAN and AWS today.

### Q: What are the different use cases for Cisco Catalyst SD-WAN with AWS Cloud WAN?

A.

- **Site to AWS Cloud:** Automate Cisco Catalyst SD-WAN fabric extension to access AWS workloads, keeping the control with enterprise IT.
- **Cloud region to cloud region:** Leverage segmentation policies to allow AWS workloads in different regions to communicate securely.
- **Site to site:** Simplify SD-WAN provisioning for regional site aggregation and optimized site-to-site connectivity using AWS's global cloud network as the middle mile.

### Q. How does AWS Cloud WAN differ from AWS Transit Gateway?

A. AWS Cloud WAN is a global WAN connectivity solution that is managed as a service by AWS, whereas AWS Transit Gateway (TGW) is a regional construct and could be compared to a DIY service where you can build global networks by peering TGWs with each other and managing routing yourself.

AWS Cloud WAN provides automation using a centralized policy document and dashboard for visibility, while TGW requires management using AWS or third-party automation tools like Cisco SD-WAN.

### Q: When is the solution available?

A. The solution is available beginning with Cisco IOS® XE SD-WAN Release 17.12 and Cisco Catalyst SD-WAN Release 20.12, scheduled for the second half of 2023.

## Deployment

### Q: How do I deploy and manage Cisco Catalyst SD-WAN with AWS Cloud WAN?

A. This solution can be deployed using the Cisco SD-WAN Cloud OnRamp for Multicloud feature in [Cisco Catalyst SD-WAN Manager](#).

### Q: What are the components of the solution?

- A. You need the following as part of the solution:
1. Cisco Catalyst 8000V Edge Software license (priced by bandwidth).
  2. AWS Cloud WAN (priced by regions, edge connections, and data usage).

## Ordering and licensing

### Q. How is the Cisco Catalyst SD-WAN with AWS Cloud WAN solution ordered?

A.

1. The Catalyst 8000V can be ordered through the AWS Marketplace with the pay-as-you-go (PAYG) offer or through Cisco Commerce as Bring Your Own License (BYOL).
2. The AWS Cloud WAN solution will be billed on a PAYG model in your AWS account.

### Q. What licensing options are available?

A. Cisco DNA Advantage license is required. Learn more about Cisco DNA Software for SD-WAN and Routing [here](#).

## Resources

### Q. Where can I find more information about the Cisco Catalyst SD-WAN with AWS Cloud WAN solution?

A.

- [Cisco Catalyst SD-WAN with AWS Cloud WAN AAG](#).
- Cisco Catalyst SD-WAN with AWS Cloud WAN [demo](#) video.
- Cisco Catalyst SD-WAN with AWS Cloud WAN [webinar](#).
- Cisco Catalyst SD-WAN with AWS Cloud WAN [podcast](#).
- [Cisco SD-WAN Cloud OnRamp](#).