

CISCO SD-WAN & SASE MENTORED POV PLUS

Service Overview:

At Netnology, we specialize in enablement and implementation and integration of Cisco SD-WAN and SASE solution. As part of this Mentored Proof of Value (POV) Plus service offer, our subject matter experts (SME) partner with your team to ensure a smooth deployment of SD-WAN and integration with Umbrella solution and provide knowledge transfer to equip your staff with the necessary skills to configure and manage SD-WAN and Umbrella environment.

Solution Overview:

Cisco SD-WAN (Software Defined WAN) is a cloud-delivered overlay WAN architecture that enables digital and cloud transformation for Enterprises. It significantly reduces WAN costs, improves the time to deploy services, builds application resiliency, and provides a robust security architecture for hybrid networks. Secure your organization with Cisco SD-WAN segmentation and achieve regulatory compliance with end-to-end segmentation that keeps user, device, and application traffic separate.

- Decouples control plane from the data plane, building an overlay transport that is vendor agnostic.
- Improves operational effectiveness by enabling a consistent user experience anywhere from the single pane of glass vManage dashboard.
- Provides flexibility to create per-VPN topologies any way the organization needs with the flexibility to pick different encryption mechanisms (Cisco Supported) for each topology type.
- Guarantees zero network downtime, automates application flexibility over multiple connections, such as the Internet, MPLS, and wireless 4G LTE.
- Provides advanced analytics, monitoring, and automation for any connection across your network, whether MPLS or beyond the cloud edge.

Cisco SASE is a network architecture that combines VPN and SD-WAN capabilities with cloud-native security functions such as secure web gateways, cloud access security brokers, firewalls, and zero-trust network access. The SASE model aims to consolidate these functions in a single, integrated cloud service.

The benefits of a SASE model are unlocked by working with a single vendor who can bring together networking and security while offering flexibility and investment protection to transition to the cloud at your pace. All building blocks of a SASE architecture can be brought together in a single offer.

- Reduce cost and complexity.
- Provide centralized orchestration and real-time application optimization.
- Help secure seamless access for users.
- Enable more secure remote and mobile access.
- Restrict access based on user, device, and application identity.
- Improve security by applying consistent policy.
- Increase network and security staff effectiveness with centralized management.

Service Benefits:

Netnology has a team of world class engineers who specialize in Cisco SD-WAN and SASE solution and are passionate about customer success.

This mentored POV Plus engagement will provide on how to deploy, configure and integrate Cisco SD-WAN and SASE solution. At the end of this engagement, you will have a solid understanding on how to implement and verify Cisco SD-WAN and SASE solutions in various deployment models.

Scope of Services:

As part of the 5-day (up to 40 hours) Mentored POV Plus engagement, Netnology will provide the following services:

- Overview of the Cisco SD-WAN and Cisco SASE Mentored POV Plus
- Controller Deployment (1 vManage, 1 vBond, 1 vSmart).
- **Configure, test, and validate the SD-WAN solution**
 - VPN Deployment & Segmentation (up to 2)
 - Create Features & Device Templates (up to 5)
 - Remote site deployment of WAN Edge (up to 3)
 - Policies Creation (up to 3)
 - Topology (Mesh, Hub & Spoke, Custom)
 - Application Aware Routing (AAR)
 - Direct Internet Access (DIA)
 - SD-WAN Routing (IGP only)
- Detailed instructions to configure, deploy and validate the three use cases:
 - **Secure Automated WAN** – Secure bandwidth augmentation enabled by a single, transportagnostic, SD-WAN fabric
 - **Application Performance Optimization** – Automatically distribute critical applications over available transports based on SLA policies (Application Aware Routing – AAR)
 - **Secure Direct Internet Access** – Simplified and secure Internet access for corporate and guest users
- **Configure, test, and validate the Cisco SASE solution**
 - Creation of Templates
 - Establishment of IPSec Tunnels to Umbrella SIG
 - Traffic Redirection to Umbrella SIG
 - Creating of Security Policies (up to 10 rules among different Security Services)
 - DNS Security
 - Secure Web Gateway
 - Cloud Delivered Firewall
 - CASB
 - Secure Internet traffic
 - Verify Cisco SASE operation
 - SD-WAN vManage Controller
 - SD-WAN WAN Edge router
 - Umbrella Dashboard
 - Test Cisco SASE

Target Audience:

This service is designed for Network Architects, Network Engineers and Administrators selling, configuring, deploying, and managing the Cisco SD-WAN and SASE solution.

Prerequisites:

- Basic Cisco/Meraki SD-WAN technical knowledge.
- Customer must have a pre-existing SD-WAN environment deployed.

Service Deliverables:

No	Deliverable	Service Details
1.	Project Kickoff	<ul style="list-style-type: none"> • SD-WAN and SASE Mentored POV service overview
2.	Controller Setup	<ul style="list-style-type: none"> • Install and setup vManage (1) • Install and setup vBond (1) • Install and setup vSmart (1)
3.	Remote Site Deployment	<ul style="list-style-type: none"> • Bring up WAN Edge (up to 3) • Base system provisioning
4.	Templates Creation	<ul style="list-style-type: none"> • Create Feature/Device templates (up to 5 Device Templates) • Push templates • Device verification
5.	Policy and Segmentation	<ul style="list-style-type: none"> • Create policies (up to 3) • VPN segmentation (up to 2)
6.	Configure Cisco SASE on Cisco SD-WAN vManage	<ul style="list-style-type: none"> • Creation of templates • Establishment of IPSec tunnels to Umbrella SIG • Traffic Redirection to Umbrella SIG
7.	Configure Cisco SASE on Cisco Umbrella Dashboard	<ul style="list-style-type: none"> • Creating of Security Policies (up to 10 rules among different Security services) <ul style="list-style-type: none"> ○ DNS Security ○ Secure Web Gateway ○ Cloud Delivered Firewall ○ CASB.
8.	Cisco SASE verification	<ul style="list-style-type: none"> • Verify Cisco SASE operation <ul style="list-style-type: none"> ○ SD-WAN vManage controller ○ SD-WAN WAN Edge router ○ Umbrella Dashboard
9.	Knowledge Transfer	<ul style="list-style-type: none"> • Explain how to configure and manage the solution in the customer's environment

Note:

- (1) This service offer only covers either Cisco or Meraki SD-WAN solution (i.e., choose one).
- (2) This service offer is not intended to be a training session on the Cisco SD-WAN & SASE solution.
- (3) This service offer delivery duration is up to two weeks.