

## CISCO SD-WAN & THOUSANDEYES MENTORED POV

### Service Overview:

At Netnology, we specialize in enablement, implementation, and integration of Cisco SD-WAN and ThousandEyes solutions. This 2-day self-paced Mentored Proof of Value (POV) focused on implementing Cisco SD-WAN and ThousandEyes solutions in a hosted virtual environment. This service offer provides “just-enough” information to build a baseline understanding of the Cisco SD-WAN and ThousandEyes solution, and how to demonstrate customer value using standard use-cases.

### 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 ThousandEyes** combined with Cisco SD-WAN, delivers end-to-end visibility from the WAN Edge to everywhere that matters to your business, so that customers can deliver an optimal digital experience for every user to any application, over any network. Cisco ThousandEyes aids better manage SLAs with ISPs and service providers by correlating application performance with SD-WAN network overlay and internet underlay metrics. With the ThousandEyes agent you can:

- Rapidly enable visibility from the edge to the internet, cloud, and SaaS with simplified activation of the embedded agent through Cisco vManage.
- Gain hop-by-hop visibility into the network underlay, including detailed path and performance metrics.
- Measure and proactively monitor SD-WAN overlay performance and routing policy validation.
- Measure the reachability and performance of software-as-a-service (SaaS) and internally owned applications.
- Mitigate risk by establishing internet and SaaS performance baselines before SD-WAN rollout.

## Service Benefits:

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

This mentored POV guide will provide the necessary steps on how to deploy and configure Cisco SD-WAN and ThousandEyes solution to get familiarize with these solutions. At the end of this guide, you will have a solid understanding on how to implement and verify Cisco SD-WAN and ThousandEyes solutions.

## Scope of Services:

As part of the 2-day POV engagement, Netnology will help with the following:

- Overview of the Cisco SD-WAN and ThousandEyes Mentored POV
- Access to virtual SD-WAN and ThousandEyes infrastructure (login credentials, access method, etc.)
- Controller Deployment (1 vManage, 1 vBond, 1 vSmart)
- Cisco SD-WAN and Cisco ThousandEyes configuration guide.
- **Configure, test, and validate the SD-WAN solution**
  - VPN Deployment & Segmentation
  - Create Features & Device Templates
  - Remote site deployment of WAN Edge
- **Configure, test, and validate the Cisco ThousandEyes solution**
  - SD-WAN Overlay – Application Experience & Network
    - Branch Agents do Data Center Application via SD-WAN overlay tunnel.
    - Monitor branch locations targeting data center applications.
  - SD-WAN Underlay Network Performance
    - Application to Application underlay monitoring.
    - Branch Agents to Data Center Edge Device.
  - Network Performance & Throughput – DC to Branch
    - Data Center to Branches, Throughput, Bi-Directional
    - Complete overlay network performance and visibility.
  - DC Hosted Application User Experience & Network Comparison
    - TCP throughput between DC and Branch site SD-WAN vs MPLS
    - User experience & Network performance from Branch sites to application SD-WAN vs MPLS

## Target Audience:

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

## Prerequisites:

Basic technical knowledge of Cisco SD-WAN and ThousandEyes solutions.

## Service Deliverables:

No	Deliverable	Service Details
1.	Project Kickoff	<ul style="list-style-type: none"> <li>SD-WAN &amp; ThousandEyes Mentored POV service overview</li> </ul>
2.	Lab	<ul style="list-style-type: none"> <li>Remote Access to a dedicated SD-WAN &amp; ThousandEyes POV POD</li> </ul>
3.	Documentation	<ul style="list-style-type: none"> <li>Cisco SD-WAN and Cisco ThousandEyes configuration guide</li> <li>Step-by-step guide on implementation and validating use cases outlined in the “Scope of Service” section</li> </ul>
4.	Technical Support	<ul style="list-style-type: none"> <li>Up to two (2) hours of technical support incase to help users</li> <li>troubleshoot problems related to SD-WAN &amp; ThousandEyes Mentored POV</li> </ul>

### Note:

- (1) *This service offer is not intended to be a training session on the Cisco SD-WAN and ThousandEyes solutions.*