

SD-WAN Workshop

Duration: 2 Days

COURSE DESCRIPTION

Ninety percent of most organizations' revenue is attained at the branch office, where eighty percent of customer-facing employees work and create value. Therefore, it is essential that the organization has a modern WAN platform for their branch offices to deliver on digital services.

This workshop explores software-defined WAN (SD-WAN), one of the critical foundations of delivering digital services. Topics include:

- Exploring the WAN market and technology trends for delivering digital services in branch offices.
- How SD-WANs differ from traditional WANs.
- Reviewing requirements for WAN services with an open architecture.
- Understanding the WAN models leveraging transport independence to lower costs and increase bandwidth.
- Deciding on a model for automated zero-touch deployment, ongoing management and orchestration

COURSE OBJECTIVES

This course can help customers compare and contrast approaches by different SD-WAN vendors, like Cisco, Meraki, Viptela, Riverbed, Versa, VeloCloud, and others to help you make the right technology decision. This evaluation also includes a look at the different orchestration and automation techniques with a focus on:

- **Scalability:** Architect a scalable WAN architecture.
- **Transport Independence:** Leverage high speed bandwidth across multiple transports such as MPLS, Internet, 3G/4G LTE/ITE, etc., with the right security and quality of service (QoS).
- **Path Control:** Optimally utilize multiple WAN paths for resilience and bandwidth efficiency.
- **Applications:** Optimize the performance of applications to maximize WAN bandwidth and provide great user experience.
- **Zero-touch Deployment:** Speed the deployment of sites by remotely provisioning new equipment and services.
- **Orchestration:** Automate management and orchestration of services to optimize staff time and total cost of ownership.
- **Programmability:** Extend the WAN with software defined and programming extensions via APIs.
- **Flexibility:** Choosing whether on-premise or cloud-based deployments are best suited to the organization's policies and processes:

COURSE OUTLINE

- 1) Introduction
- 2) SD-WAN Overview
- 3) VeloCloud and Meraki solution
- 4) VeloCloud introduction:
 - VeloCloud Solution Overview
 - Control plane bring models

- Security and implementation
- Policy Overview
- Data plane & QoE/QoS
- Cloud Networking & Cloud On-Ramp
- VCO Operations and Analytics
- Migration
- Case Studies
- VeloCloud Security Arch
- VeloCloud QoS
- Business Policies
- Overlay Flow Control
- Deployment Guide
- Troubleshooting Guide
- Ordering Guide
- Competitive information
- Lab: SD-WAN (VeloCloud)

5) Meraki SD WAN Solution

- Transport Independence
- Application Optimization
- Intelligent Path Control
- Secure Connectivity
- Deployment Guide
- Ordering Guide

BENEFITS

This workshop gives your organization the opportunity to better understand the considerations for building a SD-WAN architecture that can deliver the digital services your organization will need to survive in the digitization era.