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The bridge to possible

The Real World of MSX

An Orchestration Case Study

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Lee Sudduth, Customer Delivery Architect

BRKXAR-2006



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Cisco Webex App

Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 17, 2022.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKXAR-2006>

About Us

Praveen Poojary

Customer Delivery Architect

11 Years in Cisco

#3xCCIE

#CCDE



Lee Sudduth

Customer Delivery Architect

22 Years in Cisco

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Agenda

- MSX Overview
- Case Study
- Conclusion

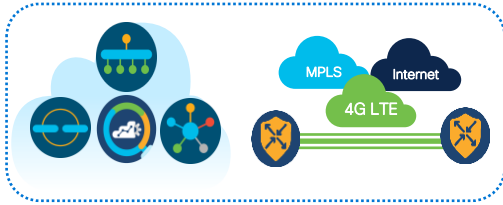
Managed Services Accelerator(MSX) Overview

Cisco Managed Services Accelerator

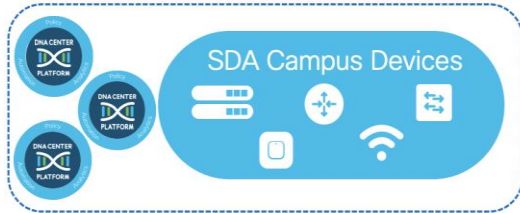


MSX – Managed Services offers

SD-Wan



Enterprise Access



Software Define Network

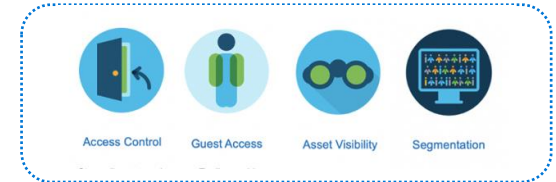
Cisco and 3rd Party



Meraki

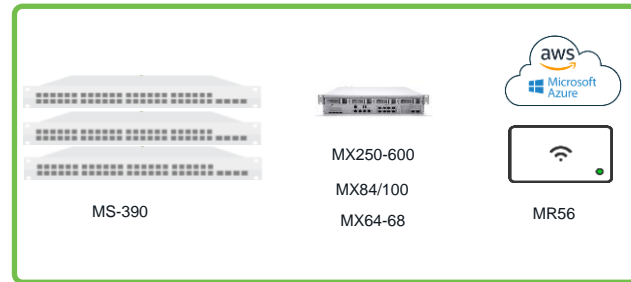
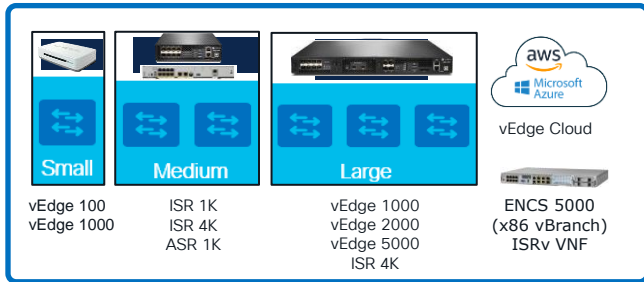
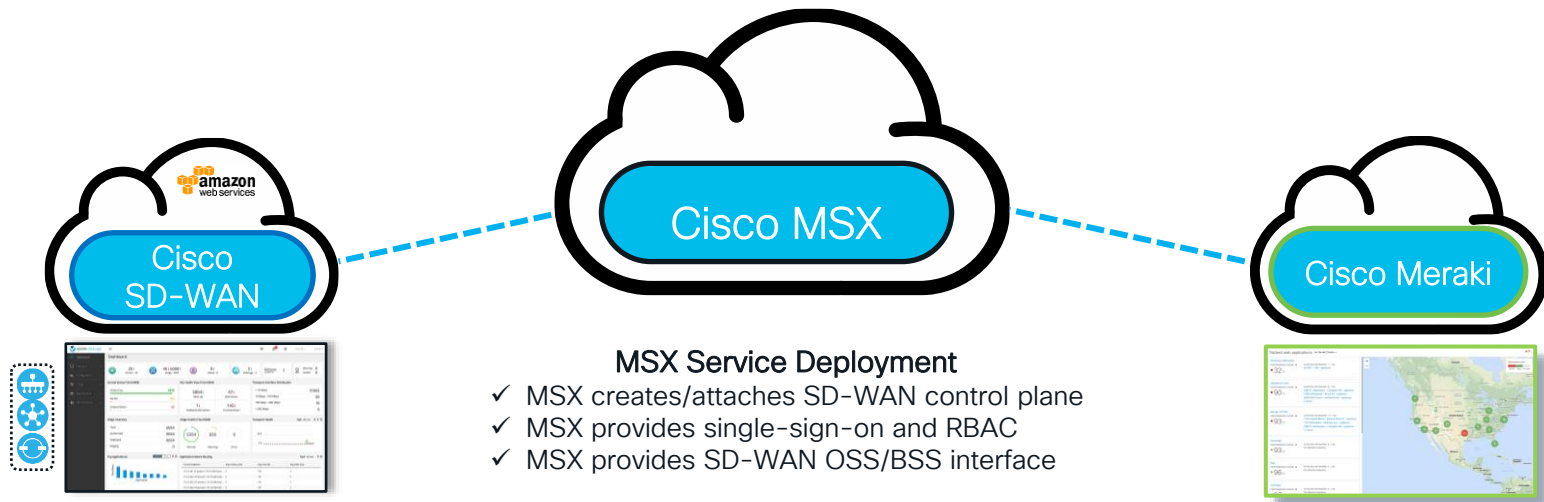


ISE with NAC



Managed Services Accelerator (MSX)

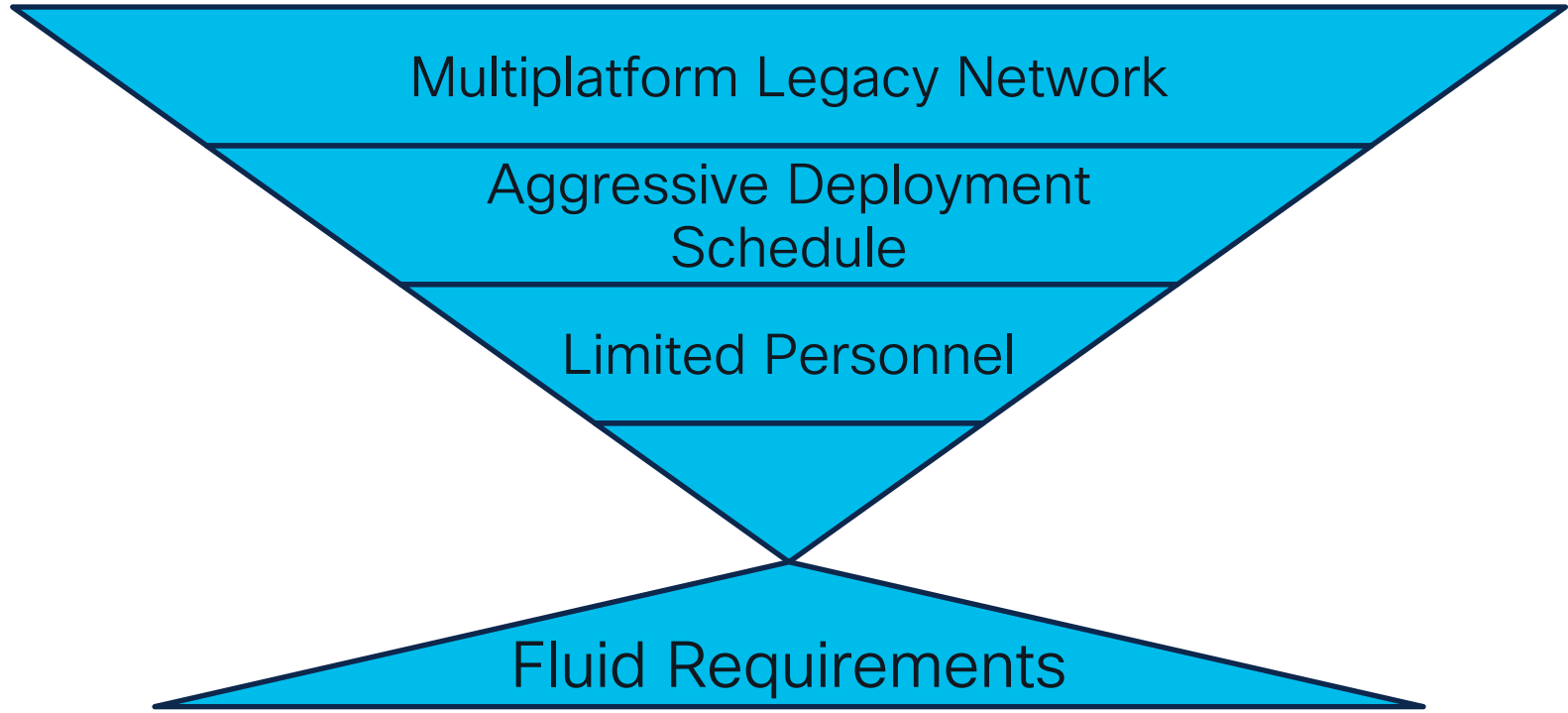
Simplifies service deployment across many services and 1000's of sites



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Case Study

Customer Challenges



Solution

SD-Wan



Cat9000 Cisco



NetOps



DevOps



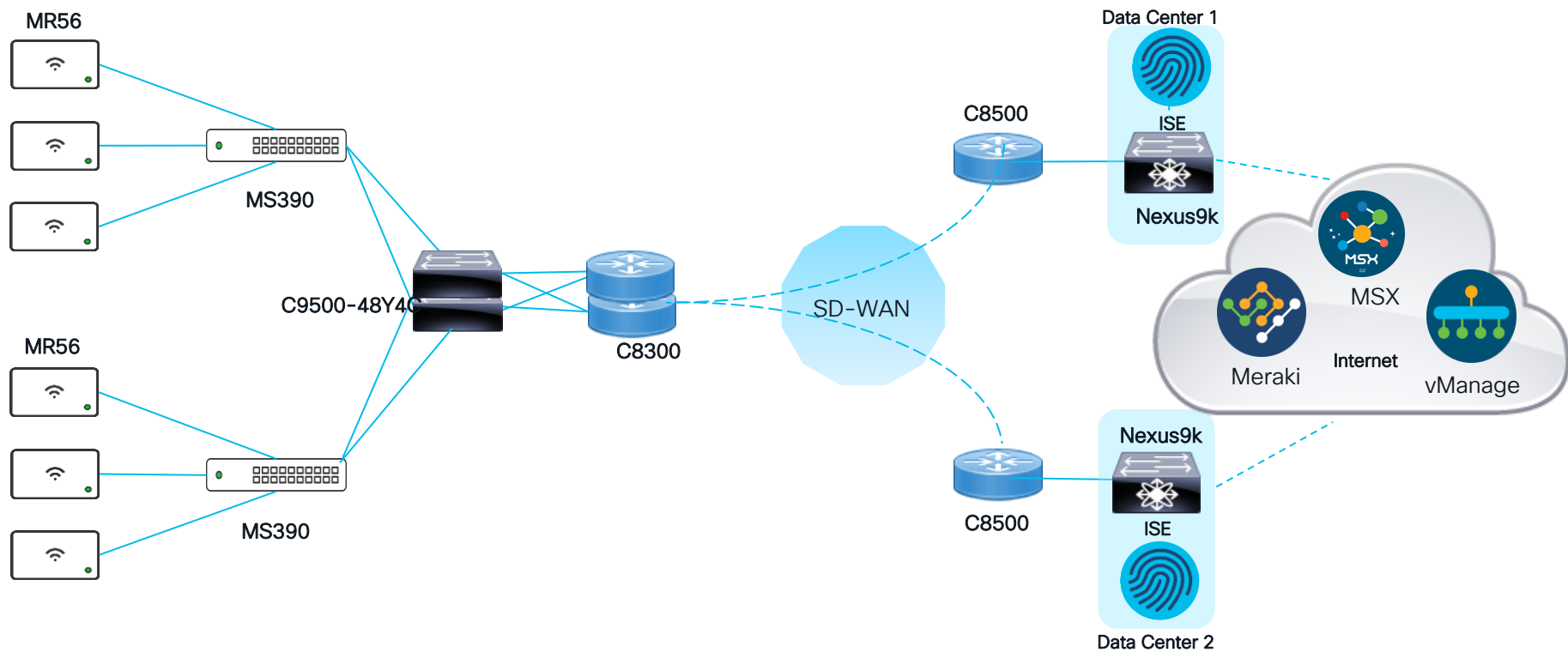
Meraki



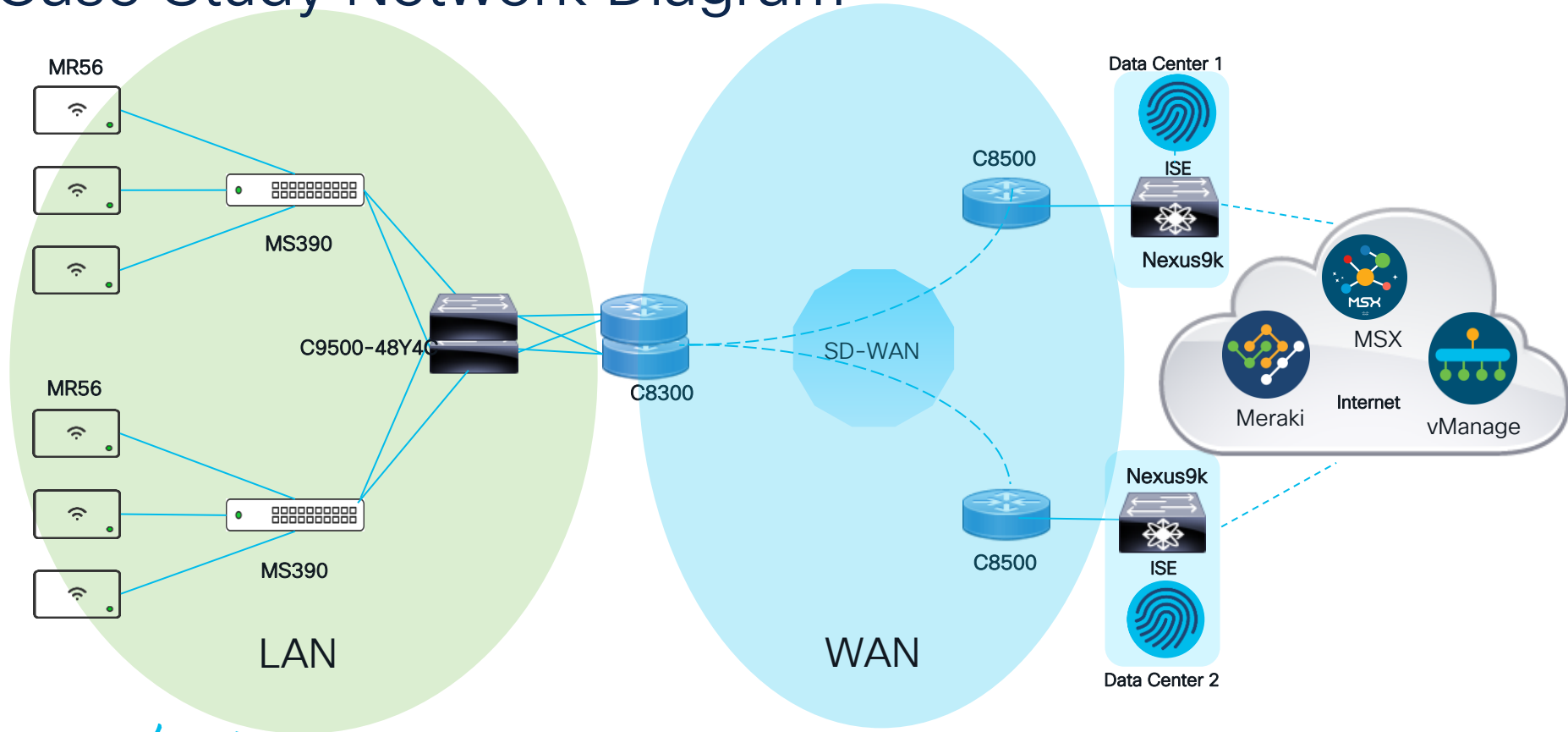
ISE



Case Study Network Diagram



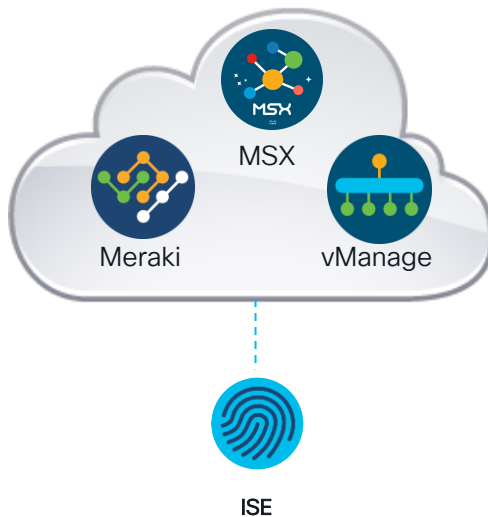
Case Study Network Diagram



Case Study Orchestration Design

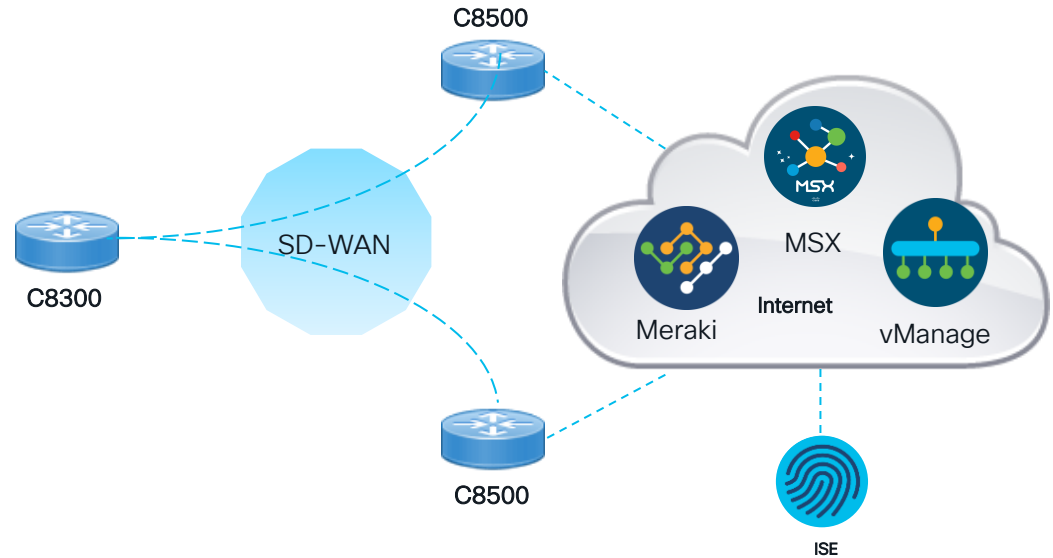
MSX Orchestrator

- Meraki Dashboard
- Wireless Access
- Meraki Dashboard
- Wired Access
- MSX (NSO)
- Cat9k Core Switches
- vManage
- SD-WAN
- ISE/ Meraki Dashboard
- Adaptive Policy



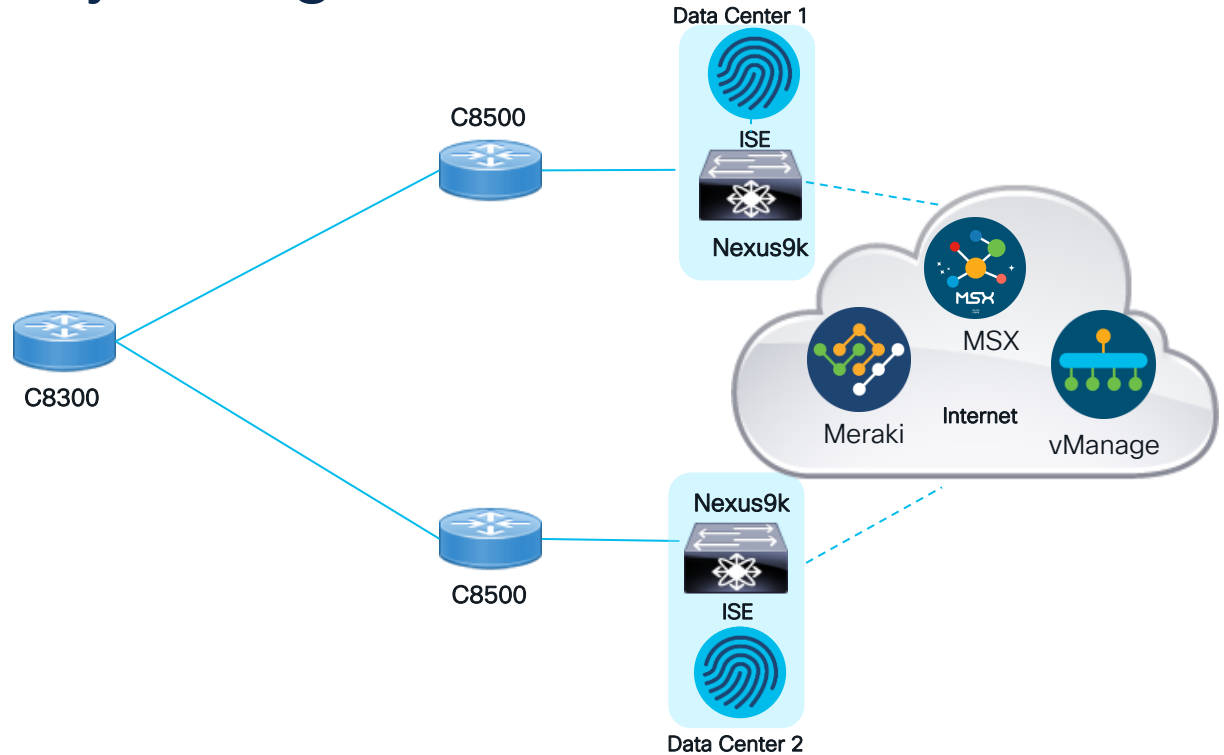
SD-WAN Overlay Design

- C8300 cEdge Router
- C8500 cEdge Router
- Routing to Data Center via C8500
- TrustSec Security Policy



SD-WAN Underlay Design

- C8300 Router
- C8500 Router
- WAN circuit from C8300 to Nexus9k in Data Center
- Internet Access to vManage
- WAN traffic routed to the C8500



Catalyst 9500 LAN Routing and Switching Core

Catalyst 9500-48Y4C

- Stack wise Virtual

Layer 2

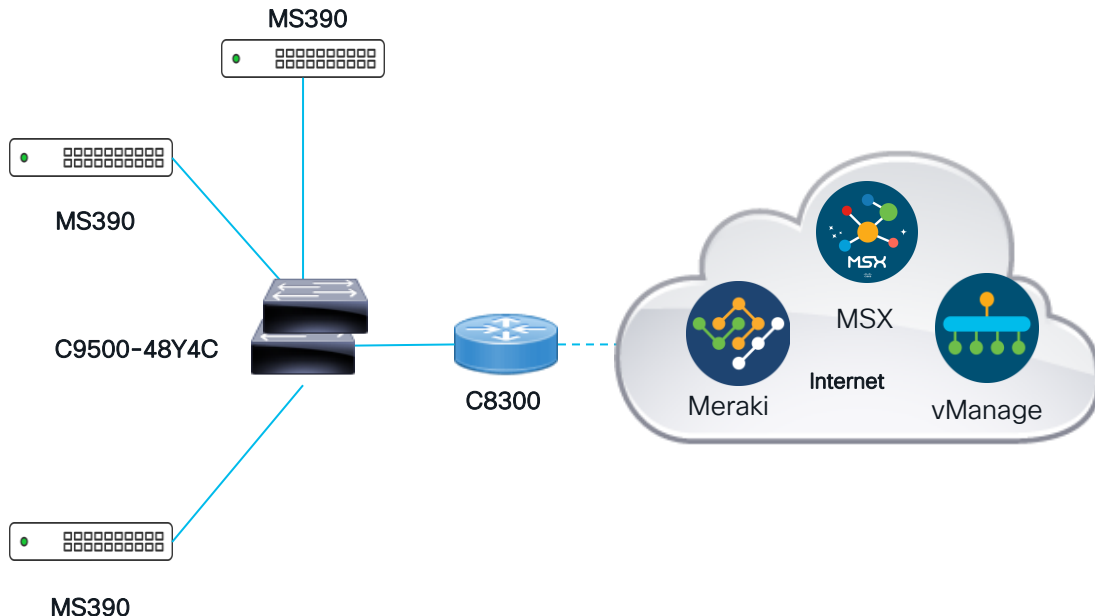
- VLAN Segmentation
- SGT Propagation

Layer 3

- IP Segmentation
- Local Routing
- WAN Routing

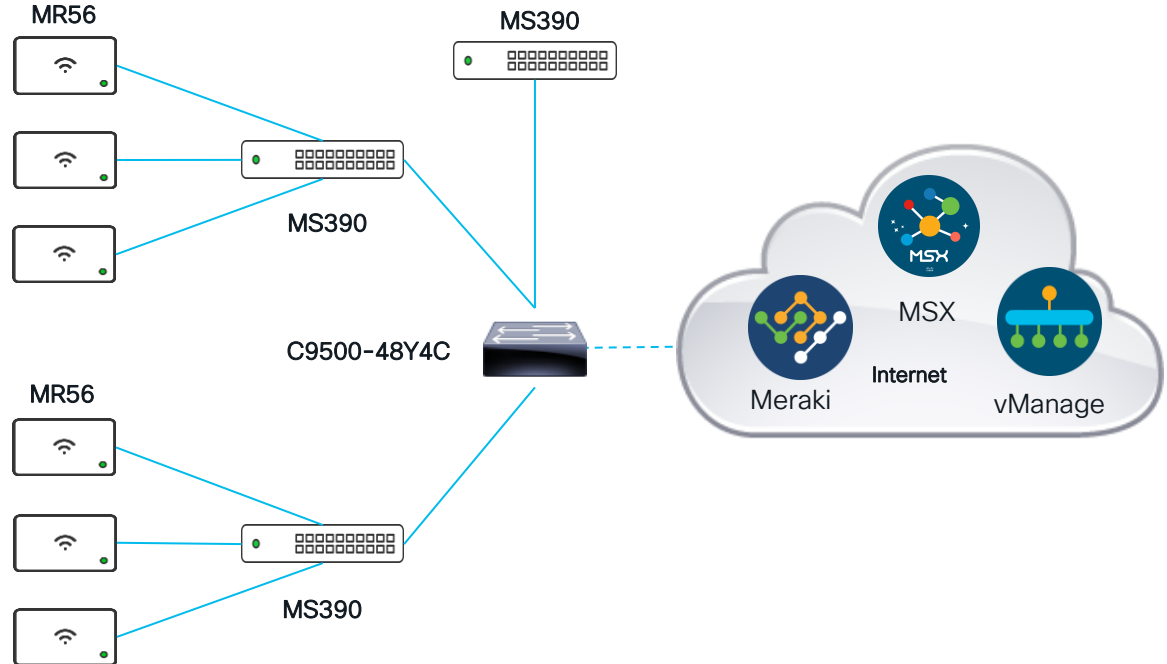
Security Policy

- TrustSec



Meraki LAN Access

- MR56 Wireless Access
- MS390 Wired Access



Adaptive Policy User/Device Identification

Static Mapping (MSX+Meraki Dashboard<->ISE)

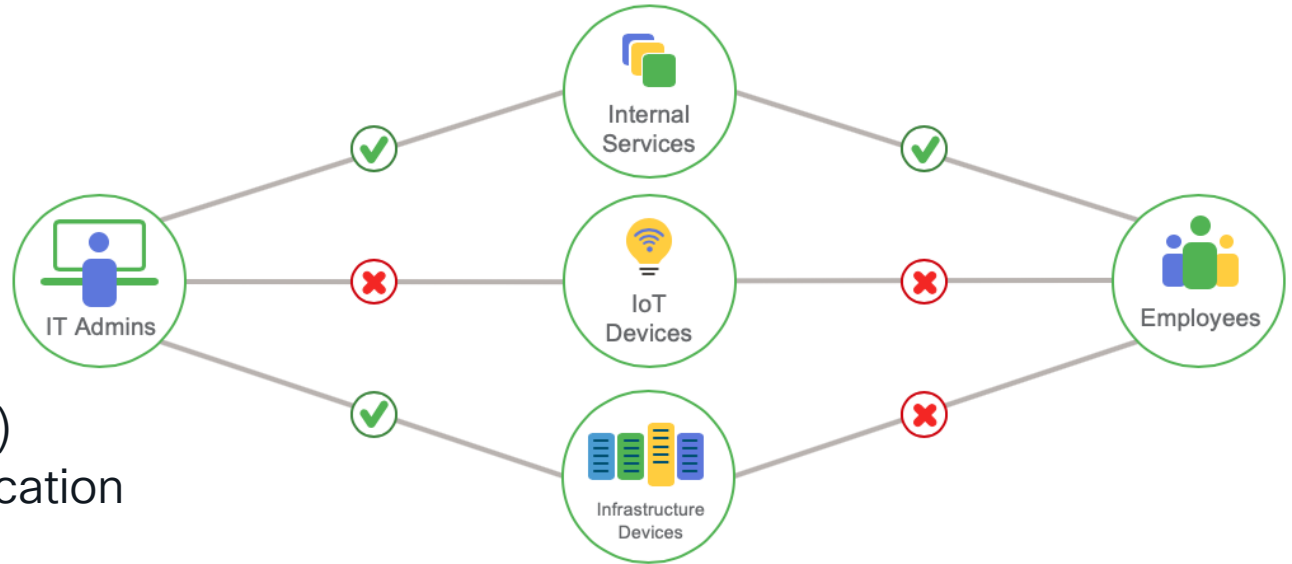
- Switch Port
- SSID

MAB (MSX+ISE)

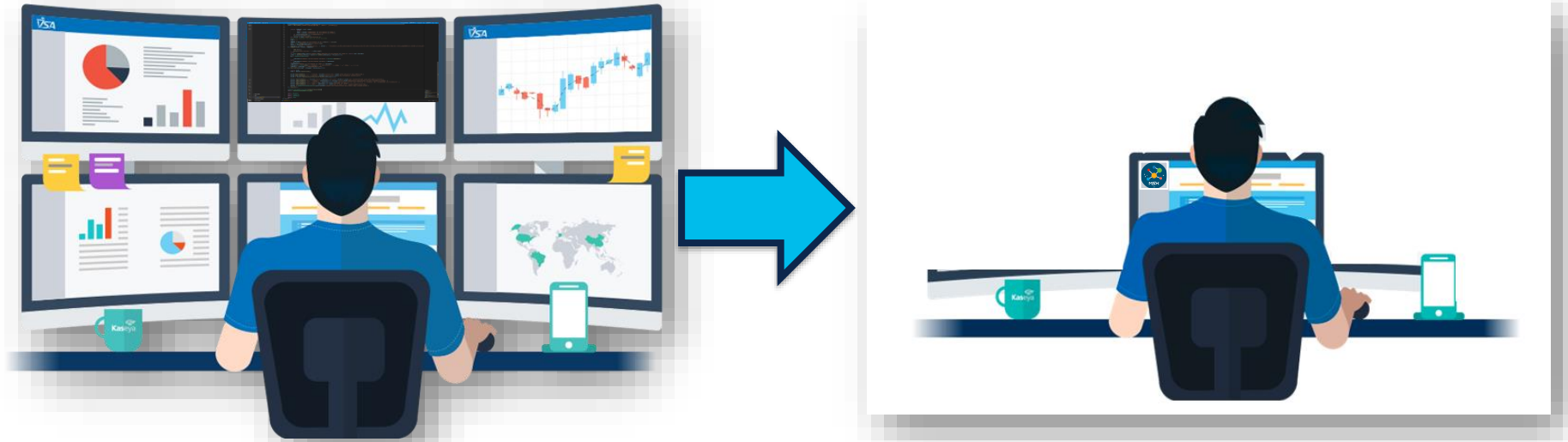
- MAC Address

Dot1x (MSX+ISE)

- User Authentication



End Goal...



Technical Session Surveys

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.



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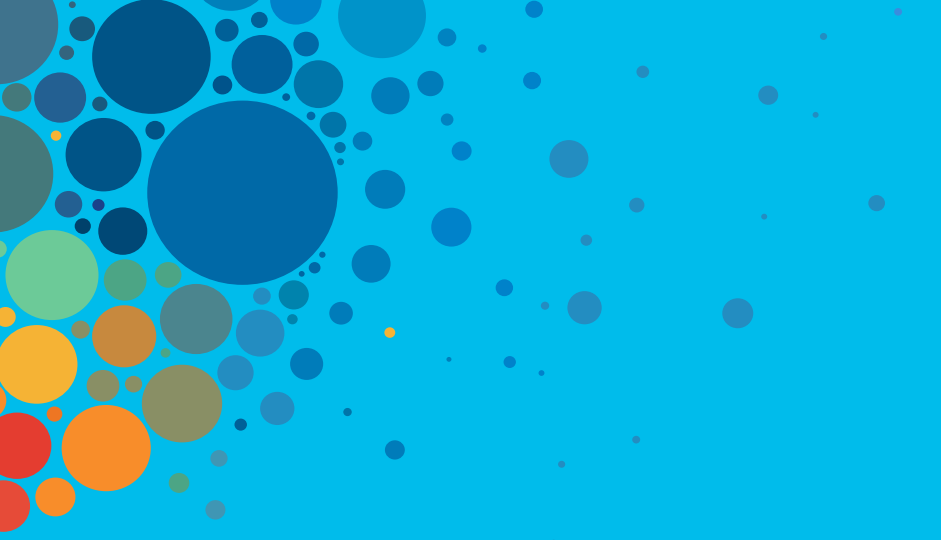
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Thank you

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 - <https://www.ciscolive.com/global/featured-on-demand.html>
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 - <https://cs.co/msx-youtube>