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SD-WAN From Design to Reality

Session 2

Filip Djurdjevic

BRKENT-2423b



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Your Speakers •



Filip Djurdjevic



Hagar Ibrahim



"By failing to prepare, you are preparing to fail." — Benjamin Franklin, Founding Father of the United States





Agenda

- Misson1: Secure Direct Internet Access
- Misson2: Application Performance Optimization

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Misson1: Secure Direct Internet Access





Level 1: Require!



Secure DIA - Customer Requirements

Customer Needs

Solution Features

Technical Requirements

Locally offload Internet traffic at the remote office, while protecting users, devices, and applications.

Faster security deployment with threat intelligence.

Meet the needs of Hybrid work environments

- Direct Internet Access
- Regional Internet Access
- Remote Access
- SD-WAN Integrated Security

Internet Access Strategy

- Local Internet exit
- Regional-Gateway
- Hybrid access with VPN





Secure DIA - Technical Requirements

Common Questions for gathering technical requirements in this stage

Internet Strategy	
Description	

Define DC as Gateway for Internet access

Define local Internet exit at spoke sites

Corporate vs Guest access

Define preferred Paths for Internet exit

Security Strategy Description

Firewalls at Internet exits

On-box security features

Cloud security features

List of Hardware devices

Remote user Hardware and Software

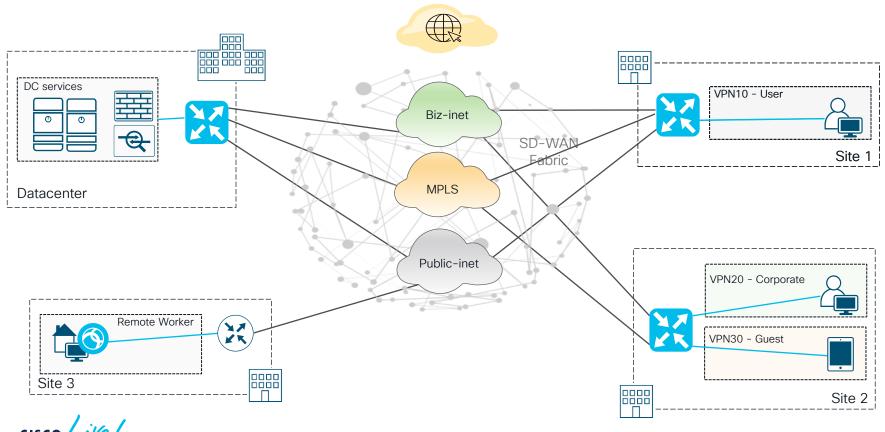


Level 2: Design!



Secure Direct Internet Access - Design Case Study

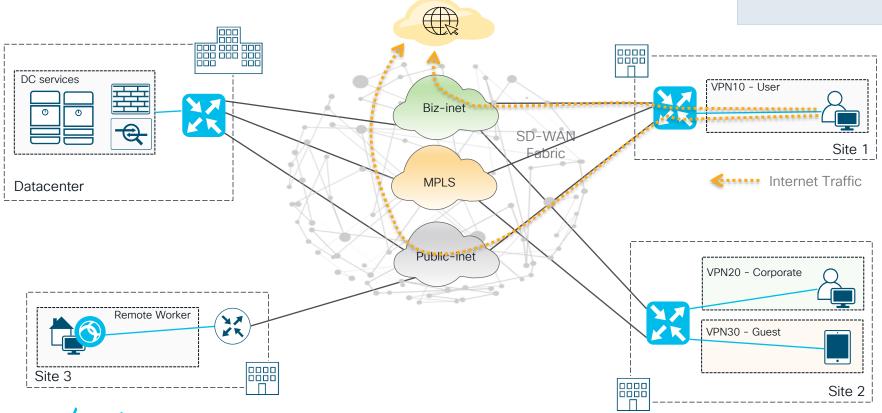
Based on a Large Enterprise in the Financial Sector (Customer-Y)



Secure Direct Internet Access - Design Case Study

Based on a Large Enterprise in the Financial Sector (Customer-Y)

DIA for all internet traffic



Secure Direct Internet Access - Design Case Study DIA for all Based on a Large Enterprise in the Financial Sector (Customer-Y) internet traffic, Prefer Biz-inet DC services VPN10 - User Biz-inet SD-WAI Site 1 Internet Traffic **MPLS** Datacenter Preferred Path Public-inet VPN20 - Corporate Remote Worker VPN30 - Guest Site 3 Site 2

Secure Direct Internet Access - Design Case Study Based on a Large Enterprise in the Financial Sector (Customer-Y) **NAT Tracker** DC services VPN10 - User Biz-inet SD-WA Site 1 MPLS Internet Traffic Datacenter Preferred Path IPSEC Path Public-inet VPN20 - Corporate Remote Worker VPN30 - Guest Site 3 Site 2

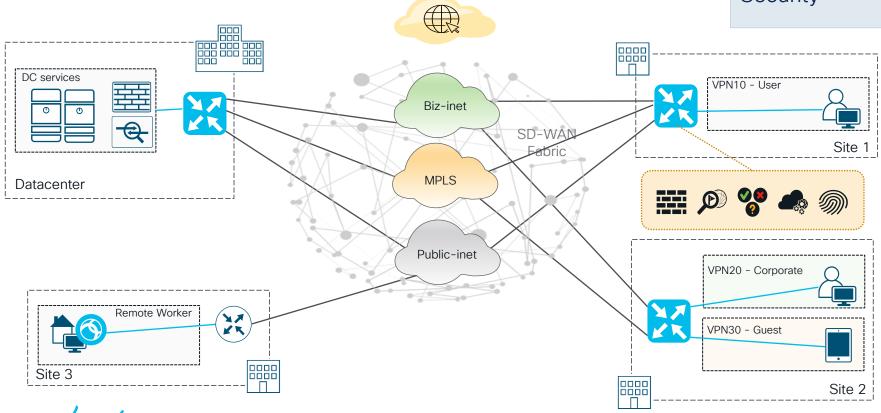
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Secure Direct Internet Access - Design Case Study

Based on a Large Enterprise in the Financial Sector (Customer-Y)

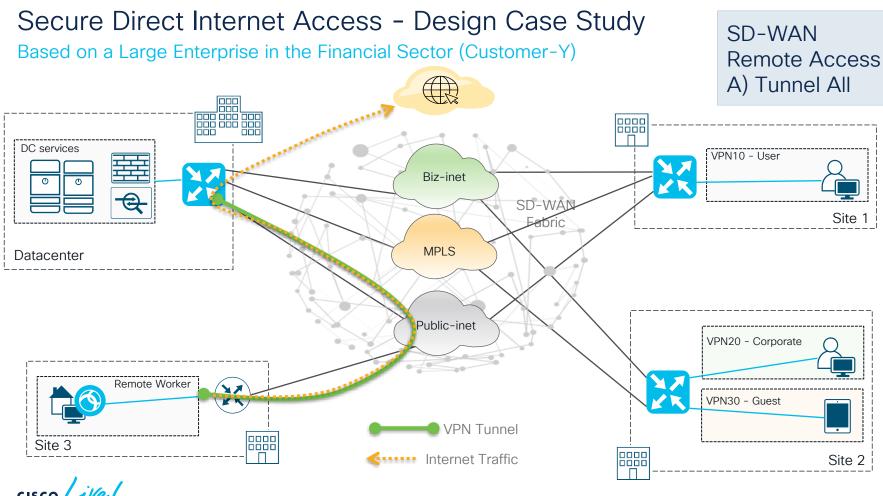
Integrated Security

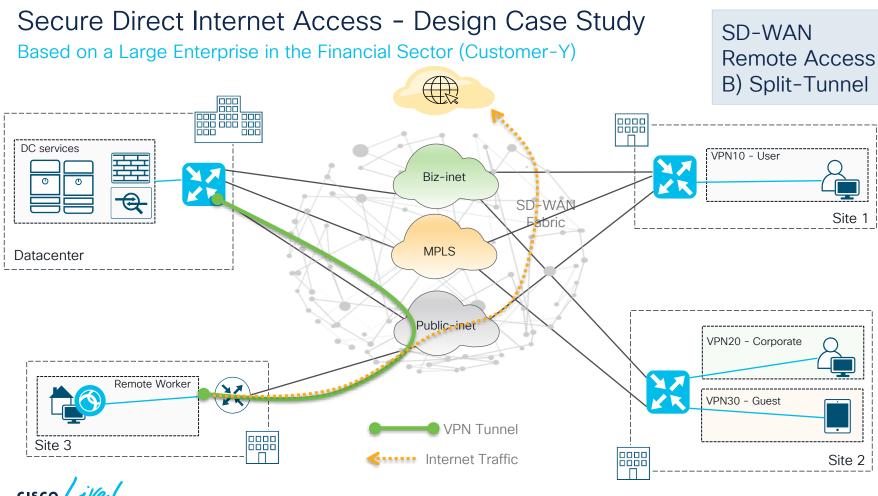


Secure Direct Internet Access - Design Case Study DIA for Guest, Based on a Large Enterprise in the Financial Sector (Customer-Y) DC-Gateway for Corporate DC services VPN10 - User Biz-inet SD-WA MPLS Site 1 Comparison Direct Internet Datacenter •••••• Internet via GW Public-inet VPN20 - Corporate Remote Worker Site 3 Site 2

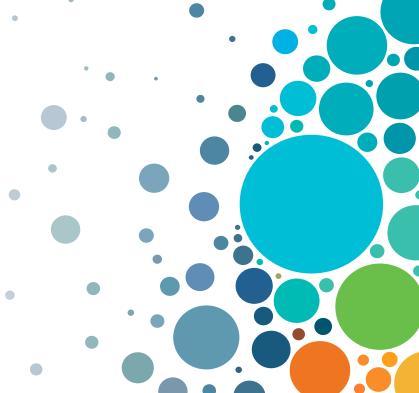
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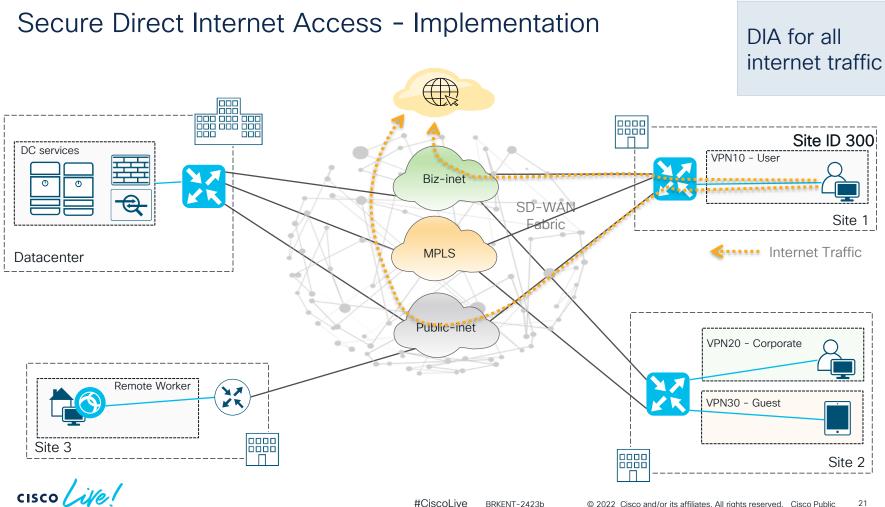
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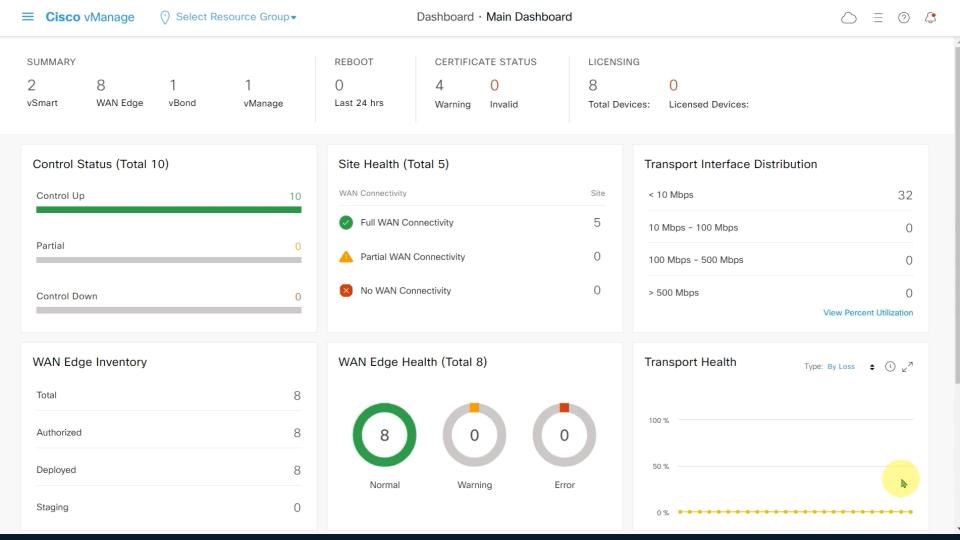
Level 3: Implement!





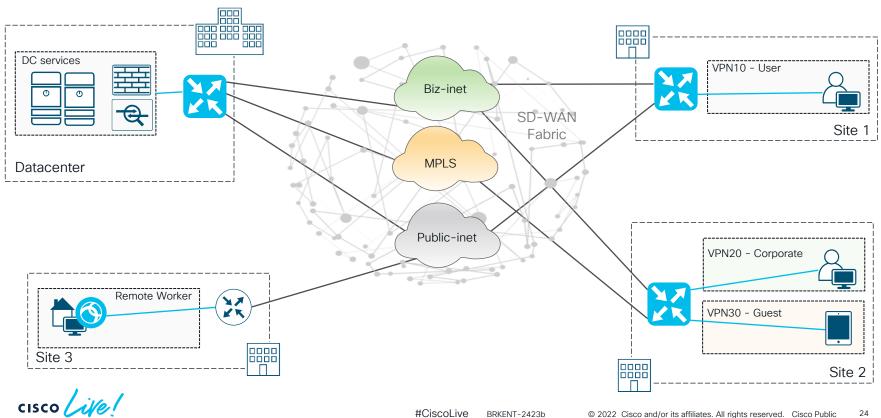
Demo - Direct Internet Access





Secure Direct Internet Access

Summary of Secure Internet Access Use Case



Cisco SD-WAN Powered by Viptela

Secure Direct Internet Access - Business Benefits



Protection against all internal and external threats

Centralized visibility and control

Improved user experience

Reduced cost and complexity

65% lower cost of connectivity for equivalent bandwidth

Full IDC report available on www.cisco.com/go/sdwan

Misson2: Application Performance Optimization



Level 1: Require!



Secure Automated WAN - Customer Requirement

Customer Needs Solution Features **Technical Requirements** Improve the application Quality of Service (QoS) WAN/LAN QoS experience for users at Application Aware Routing Business Critical remote offices. (AAR) **Applications** App1: VoIP Cloud onRamp for SaaS SLAs / Preferred Paths Transport degradation App2: Stock Market trading detection tool Fast failover App3: SaaS applications





Technical Requirements

Common Questions for gathering technical requirements in this stage

Data Center WAN QoS
requirements

Branch WAN QoS requirements

Service Side Inbound Policer Required

Service Side Outbound Policer Required

Service Side Marking/ Classification Required

Transport Side Shaping Required

Transport side Queueing Required

SLA Classes

Preferred Paths

SaaS critical applications

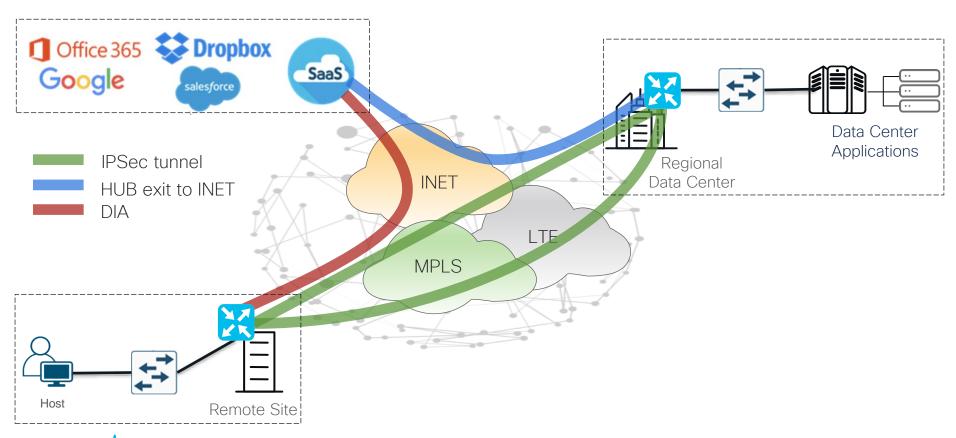
DIA/Gateway/Hybrid Site list

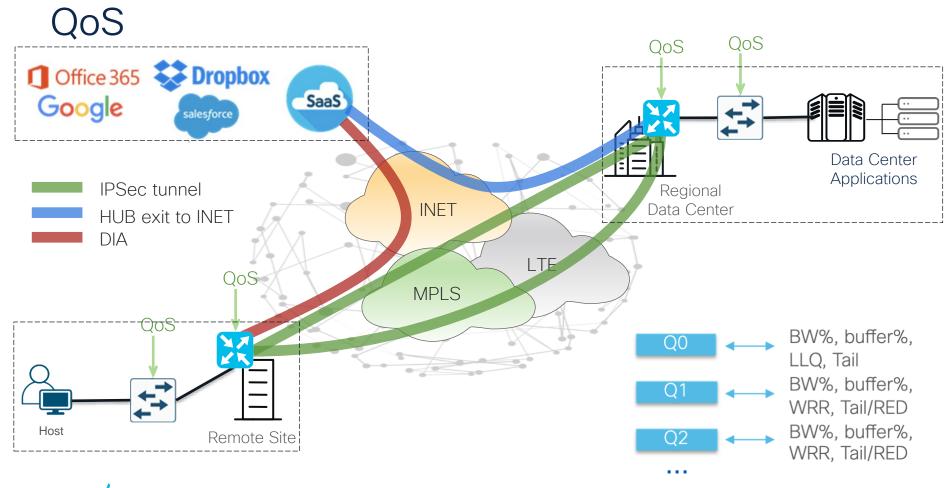


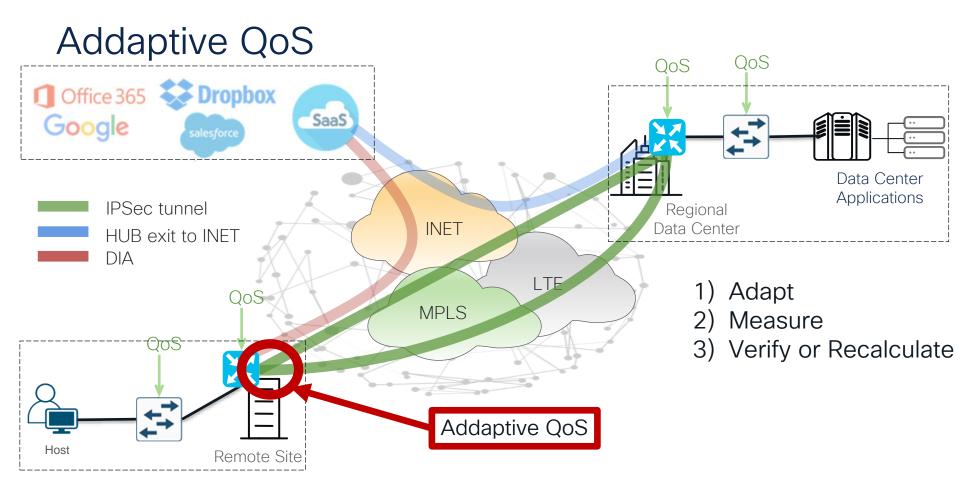
Level 2: Design!



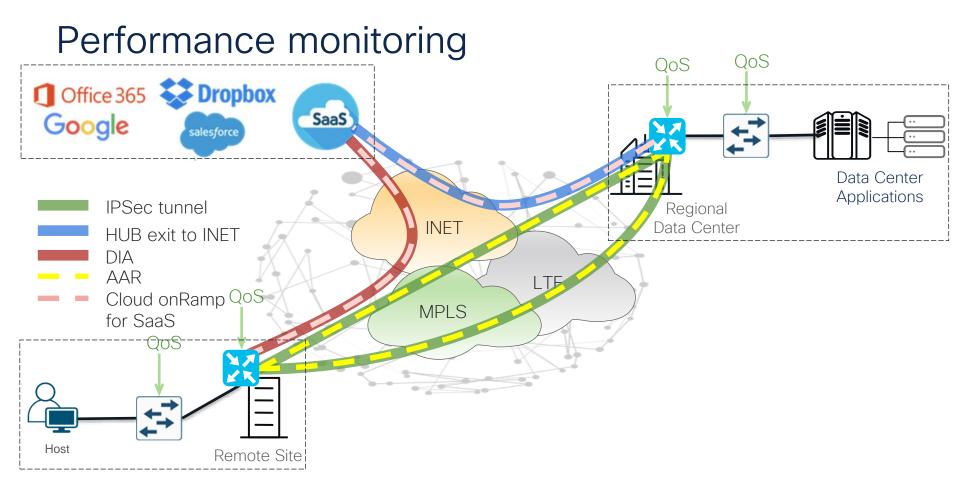
WAN Transports



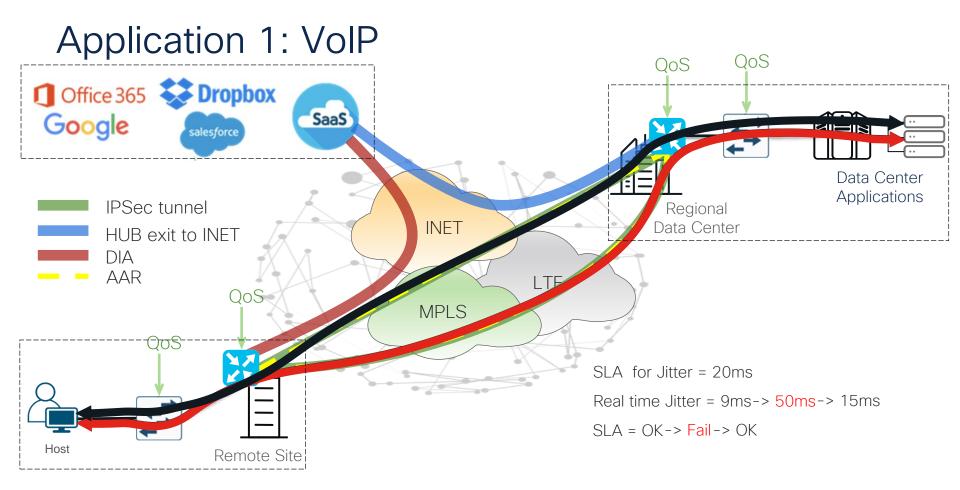




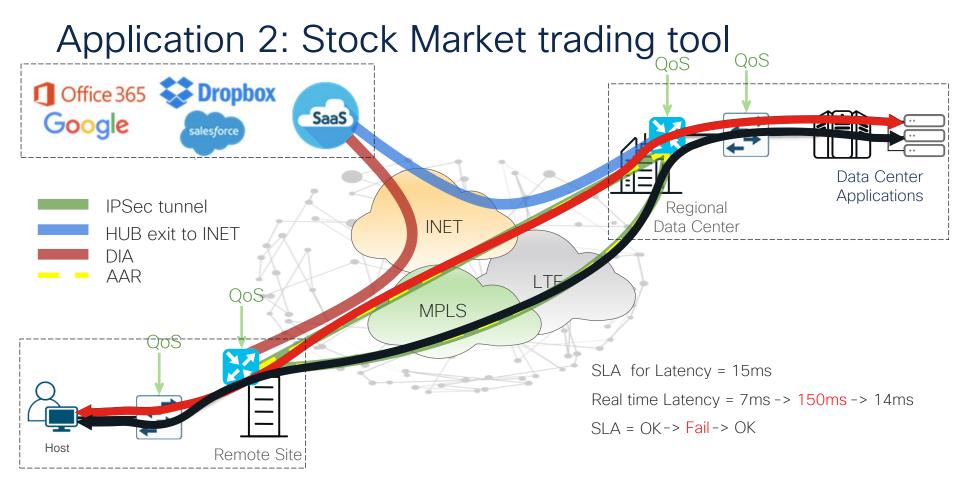




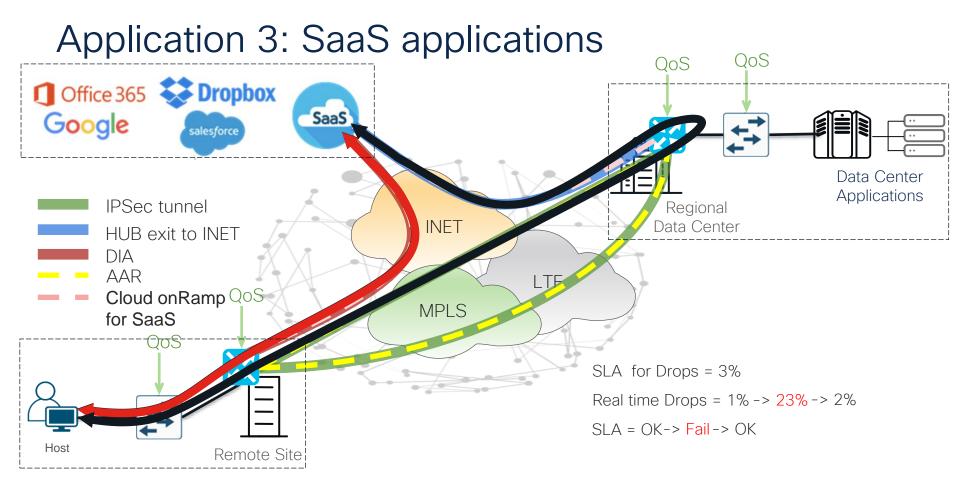






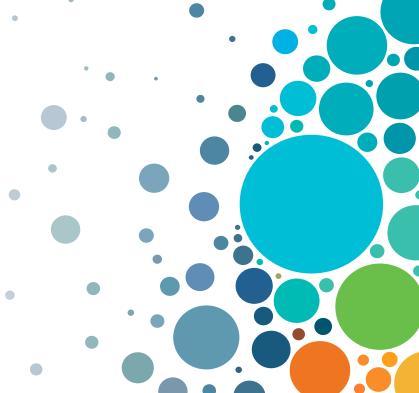




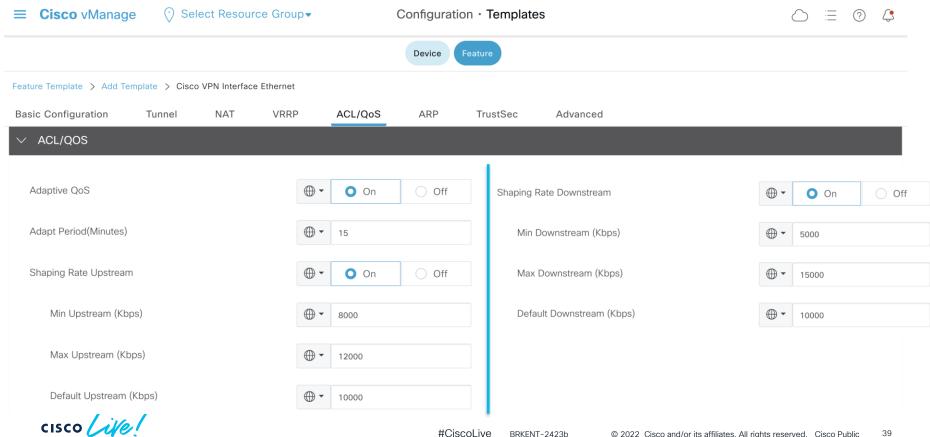




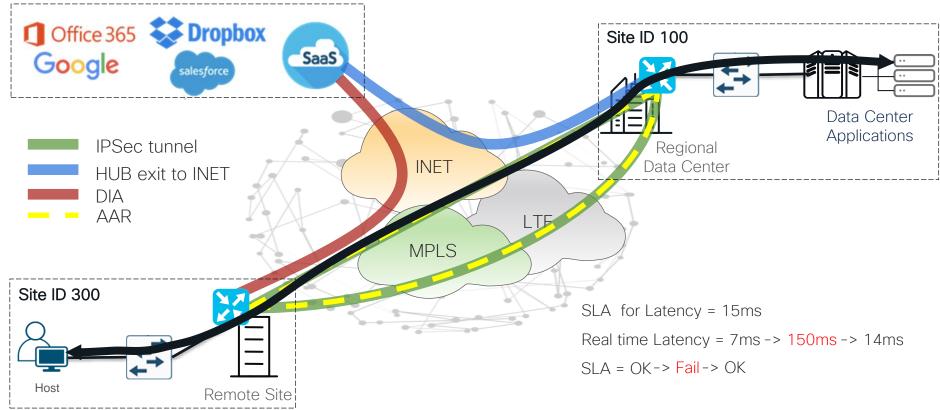
Level 3: Implement!



Adaptive QoS implementation



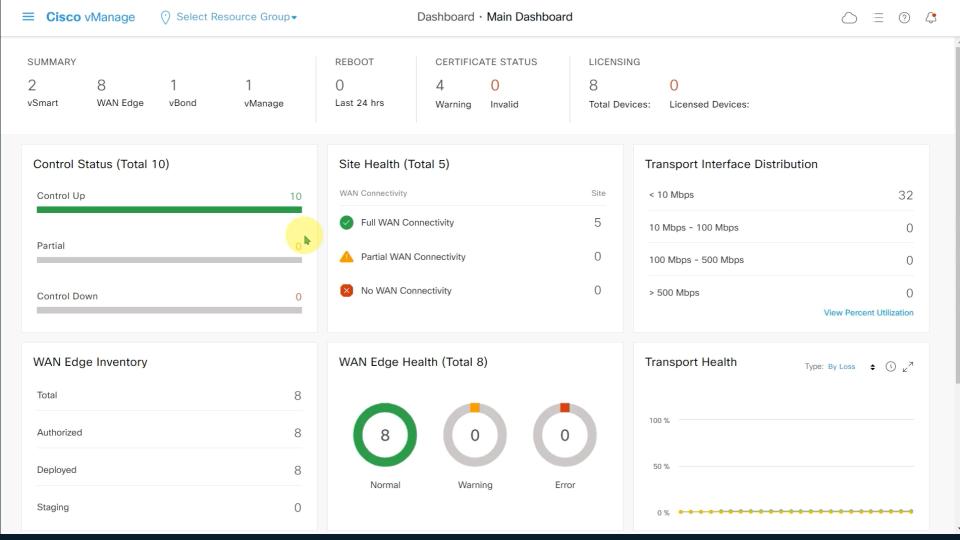
Stock Market trading tool - AAR Implementation





Demo - Application Aware Routing





Why Cisco SD-WAN Powered by Viptela?

Applications Performance Optimization - Business Benefits

Predictable app experience

High availability for all critical applications

Real time reaction to network problems

Improved operational experience

4x improved application experience

45% reduced application latency

59% faster to onboard new services

Full IDC report available on www.cisco.com/go/sdwan



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