



The bridge to possible

Cisco SD-WAN + ThousandEyes

Extend Visibility into the Internet, cloud, and SaaS

November 2021

Presenters



Robert H. Tang
Product Marketing, Cisco SD-
WAN



Mike Hicks
Principal Solution Analyst -
ThousandEyes

Agenda

- 1 Overview
- 2 Cisco SD-WAN
- 3 Cisco ThousandEyes
- 4 Demo
- 5 Summary

The new enterprise reality



Expanding to the cloud can limit the visibility and control of your IT organization

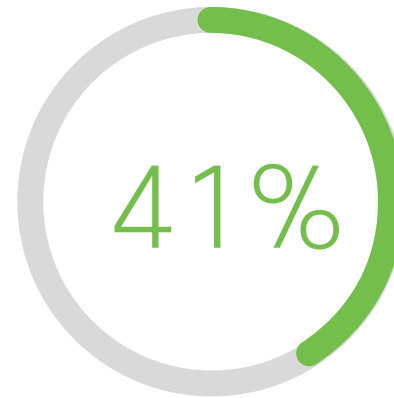
Organizations are losing visibility and control



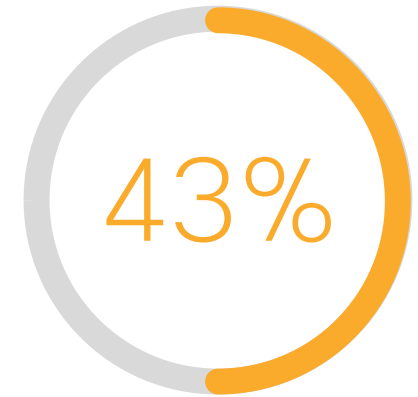
Average number of cloud services that enterprises are connected to¹



Organizations using cloud services today plan to increase their cloud spending²



Lack of consistent automation and analytics to optimize our environment³



Mission critical workloads have latency, performance, and security constraints³

1 - Innovation Insight for Software-Defined Cloud Interconnection - Gartner 2020

2 - Worldwide Public Cloud End-User Spending Forecast - Gartner 2020

3 - Future Enterprise Resiliency & Spending Survey - IDC, 2021

Lack of control leads to...



Poor application experience

Loss of productivity and user experience



Prolonged resolution

Long mean time to identify (MTTI) and resolution (MTTR)



Lack of accountability

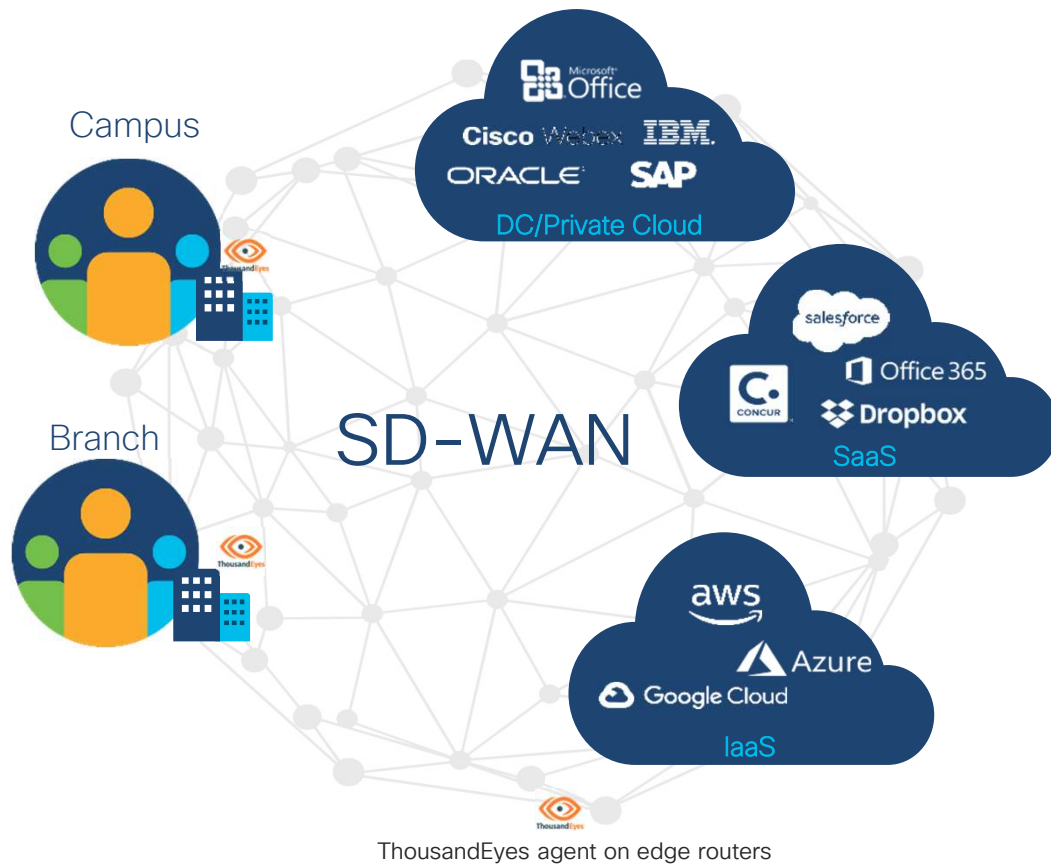
Finger pointing and SLA enforcement



Revenue loss

Loss of revenue and reputation

SD-WAN Integration with Cisco ThousandEyes



© 2021 Cisco and/or its affiliates. All rights reserved



Granular visibility



Correlated actionable insights



Faster root cause isolation



Enhanced application experience

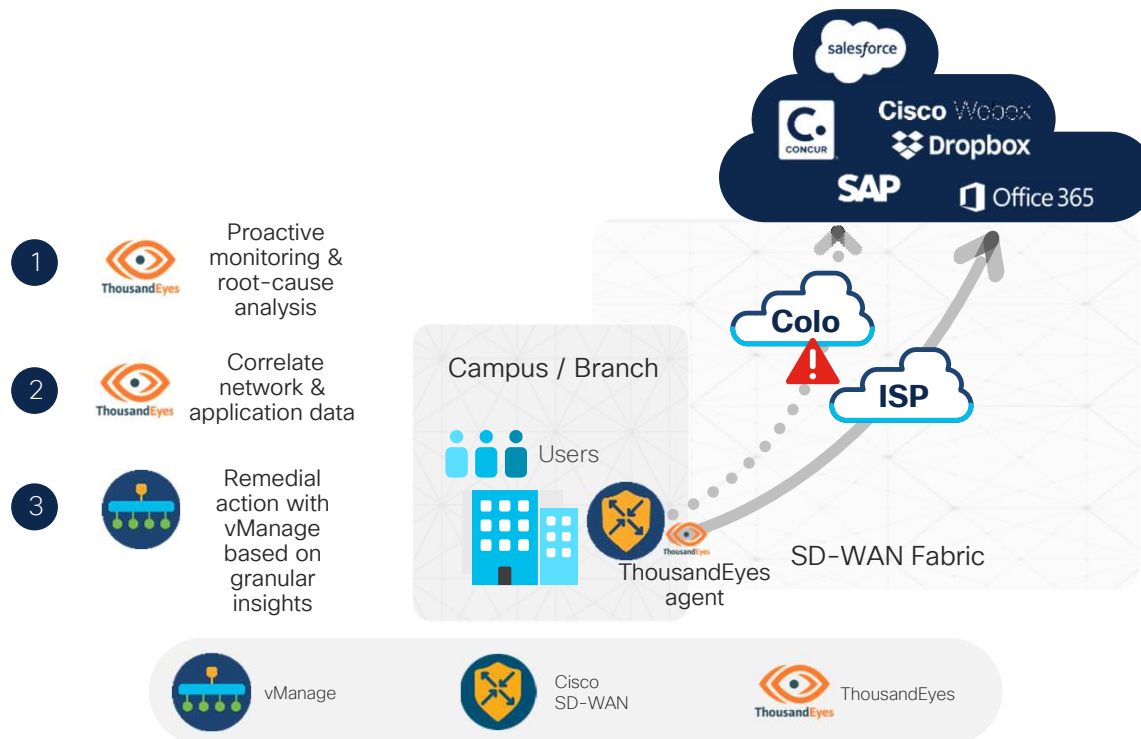


Simplify agent deployment



Leverage existing routers

SD-WAN with ThousandEyes - Digital Experience



- Correlate multiple data, perform root-cause analysis, and generate granular insights.
- Insights into network health and application performance across the internet, cloud, and SaaS
- Lower MTTI of issues and eliminate wasteful finger-pointing

Expedite corrective actions and ensure optimal application experience

Empowering IT to faster resolution

Evaluate persistently

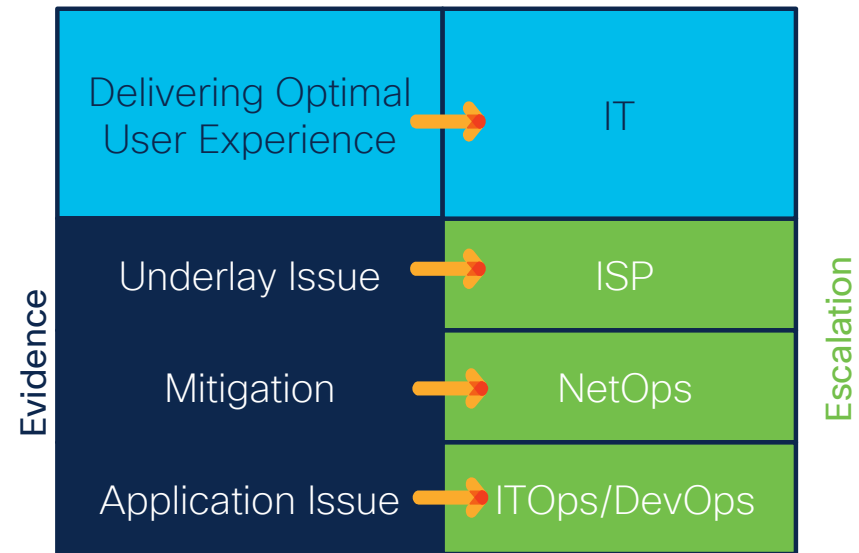
- Correlated networked application performance.
- Define what good looks like

pinpoint Evidence

- End-to-End path insights
- Optimization opportunities in the service delivery chain

Escalate accurately

- Act based on empirical evidence.
- Expedited fault domain Identification



ThousandEyes Key Capabilities

CROSS-DOMAIN DIGITAL EXPERIENCE TELEMETRY

Internet Outages

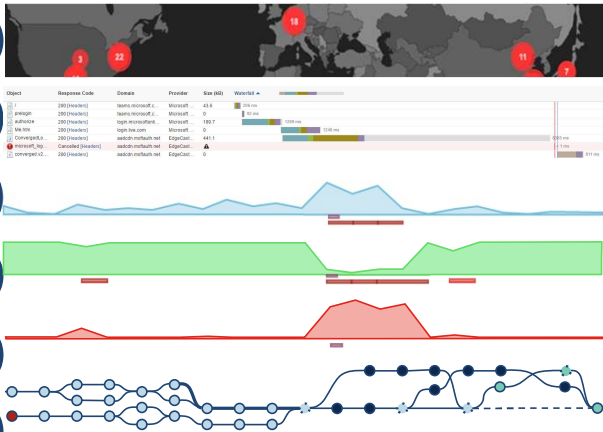
Synthetic App
Experience

Web Performance

Network Performance

Path Visualization

BGP Analytics



VANTAGE POINTS FOR ANY PERSPECTIVE



Cloud Agent

Outside-In Visibility
Globally Distributed Agents
in 200+ Locations
Cloud, Broadband, T2/3
ISPs



External Vantage
Points



Enterprise Agent

Inside Network-out Visibility
Site | Branch | Datacenter
Target SaaS Apps, Cloud,
SD-WAN & End-to-End



Internal Vantage
Points



Endpoint Agent

Last-mile monitoring
Remote | WFH | Hybrid User
App-to-network user
telemetry including VPN,
WiFi, System KPIs



End-User Experience



APP to NETWORK ANALYTICS

Multi-layer application to network
& routing correlation
Internal & external vantage points
Proactive actionable analytics
End-user experience with provider
dependencies



VISUAL ANALYSIS

Interactive Data visualizations
Patented path viz auto-correlating
13 multi-dimensional data points
Visibility across all internal and
internet network segments
Analytics across applications,
networks and routing



SHARED KNOWLEDGE

Interactive shareable snapshots
Escalate to Providers with evidence
Provide evidence inside and
outside the org
Collective intelligence from global
Internet performance and outage
data tell you directly how it is
affecting your service

ThousandEyes Demo

Use cases



Network visibility

Ensure reachability of business critical applications and cloud services

Hop-by-hop network path visibility across ISPs and cloud networks



Application experience

Monitor the usability and performance of SaaS and internally hosted applications

Pinpoint root-cause and expedite resolution



Secure edge assurance

Optimize secure edge services on application performance

Optimal connectivity to cloud-based security

SD-WAN integration with ThousandEyes

Catalyst 8200 Series

Enhancing multicloud architecture with secure, flexible, and scalable connectivity



Catalyst 8300 Series

High-speed multicloud access, advanced wireless WAN capabilities, integrated compute and storage, flexible services, and more



ISR 4000 Series

Build a secure, fast and scalable digital branch



ThousandEyes
License on
Cisco GPL

Network & Application
Synthetics

TE-Units

Why Cisco SD-WAN & ThousandEyes?

Analytics through Actionable Insights

Extend application visibility into the internet and cloud for actionable insights and enable visualized performance insights into the underlying SD-WAN network.

Optimized for Multicloud

Deliver unified policy with IaaS integrations, enhanced application experience with SaaS optimizations, and cloud agnostic branch connectivity with Cloud Interconnect

Right Security, Right Place

On-premises or cloud-based security with secure SD-WAN, to accelerate the transition to a SASE enabled architecture



Additional resources

- Internet and cloud intelligence for SD-WAN [infographic](#)
- Cisco SD-WAN and ThousandEyes [demo video](#)
- Cisco SD-WAN [At-a-Glance](#)
- [Enriching SD-WAN Visibility with Cisco ThousandEyes Internet and Cloud Intelligence blog](#)
- [ThousandEyes Expands Global Vantage Points Across Cisco Networking Platforms for Optimized Digital Experience](#)
- [Cisco ThousandEyes free trial](#)

