

von 0 auf ~~100~~ 

ThousandEyes

Virtual Espresso Webinar


Sven Kutzer

Technical Solutions Architect

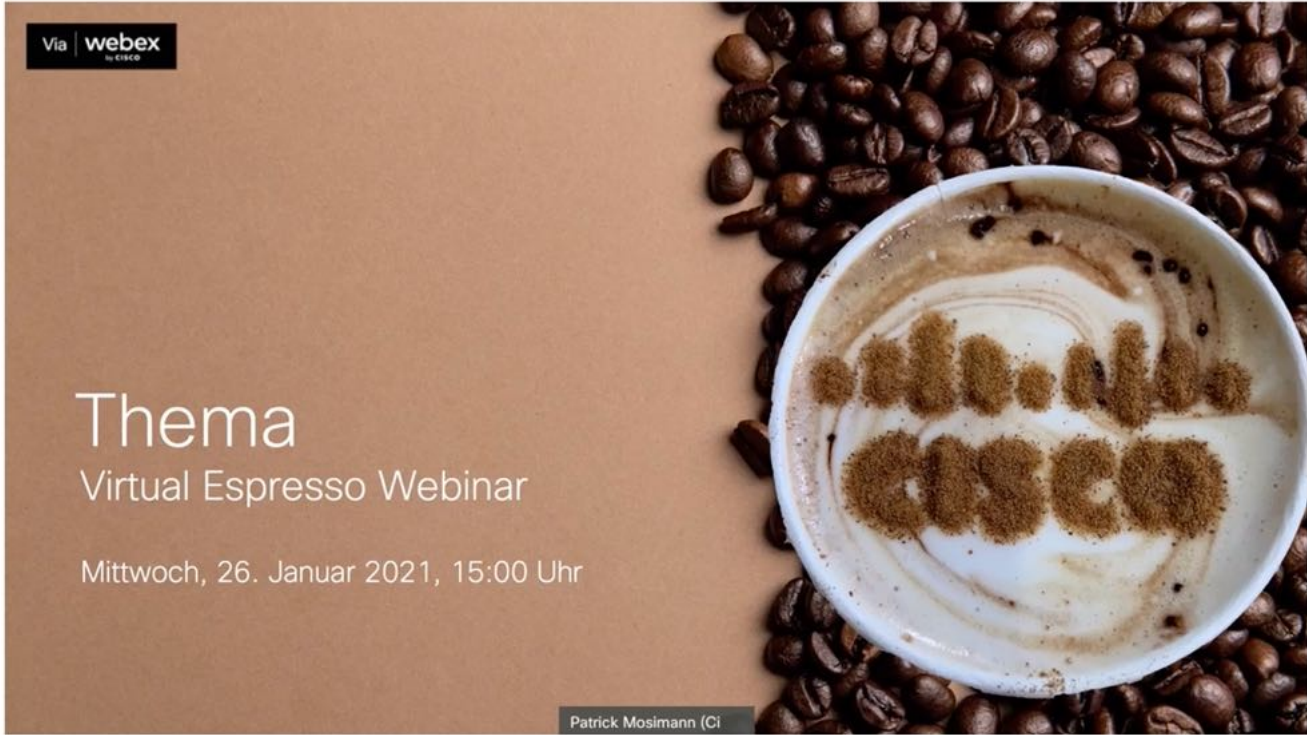
Mittwoch, 9. Februar 2022, 15:00 Uhr



👉 please utilise the Q&A function to get your question answered



Video



Via **webex** by CISCO

Thema
Virtual Espresso Webinar

Mittwoch, 26. Januar 2021, 15:00 Uhr

Patrick Mosimann (CI)


Ereignisdetails

Virtual Espresso: Thema
25. Jan. 2022 21:30 -- 25. Jan. 2022 22:00
Moderator: Patrick Mosimann

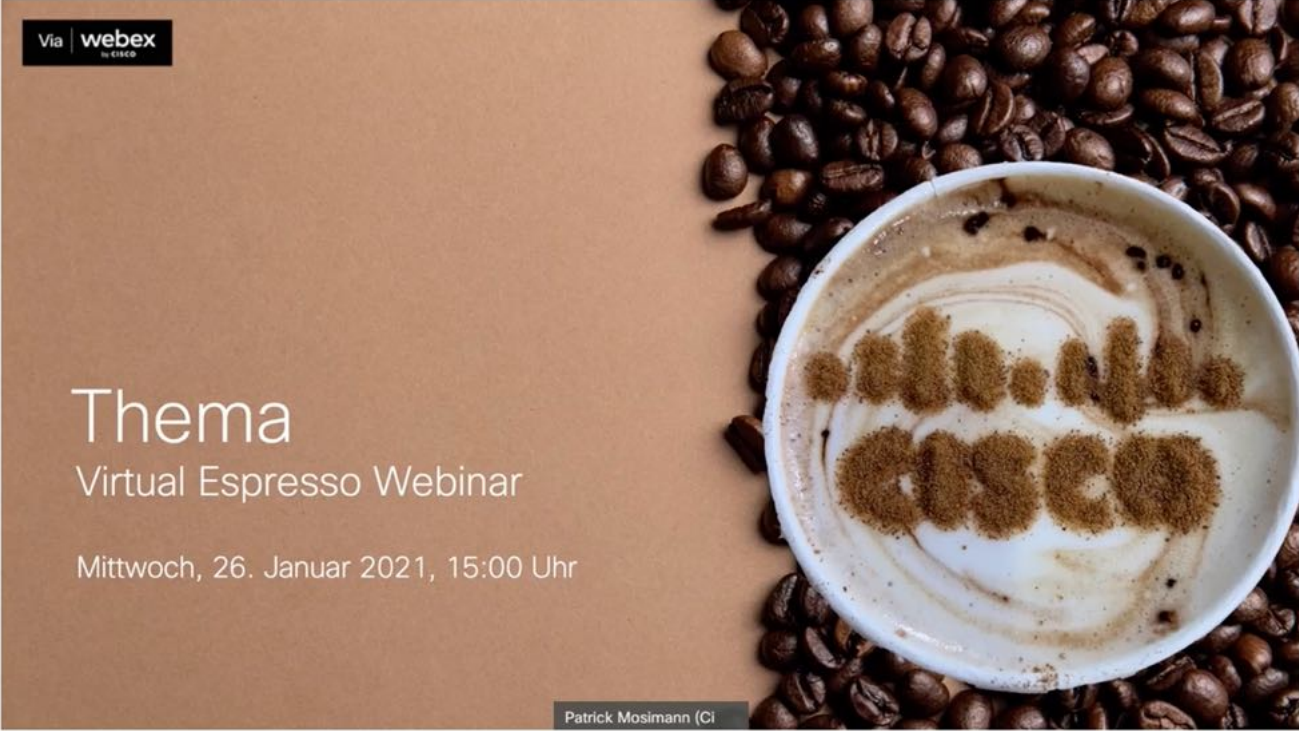
Fragen & Antworten

?

👉 please utilise the Q&A function to get your question answered



Video



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Thema

Virtual Espresso Webinar

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Patrick Mosimann (CI)

Fragen & Antworten

Meine Fragen (0) Gruppenfragen (0)

Absenden

Von Ihnen gestellte Fragen sind hier aufgelistet.

?



von 0 auf ~~100~~ **ThousandEyes**

Virtual Espresso Webinar

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Technical Solutions Architect

Mittwoch, 9. Februar 2022, 15:00 Uhr



Agenda

- 1 Introduction
- 2 What is Cisco® ThousandEyes?
- 3 Use cases in the enterprise campus
- 4 Integration with DNA Center (Patrick)
- 5 Demo
- 6 Conclusion / Q&A

von 0 auf
100 ThousandEyes
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#173 422



ThousandEyes 

Thrive in a connected world™

ThousandEyes is
now part of Cisco.



The 3 Important Response Limits

which are determined by human perceptual abilities to measure web and application performance

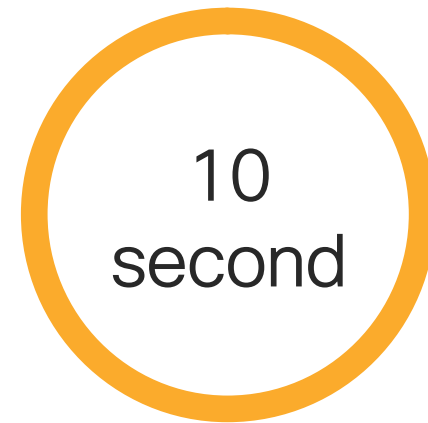
User's...



...system is
reacting
instantaneously

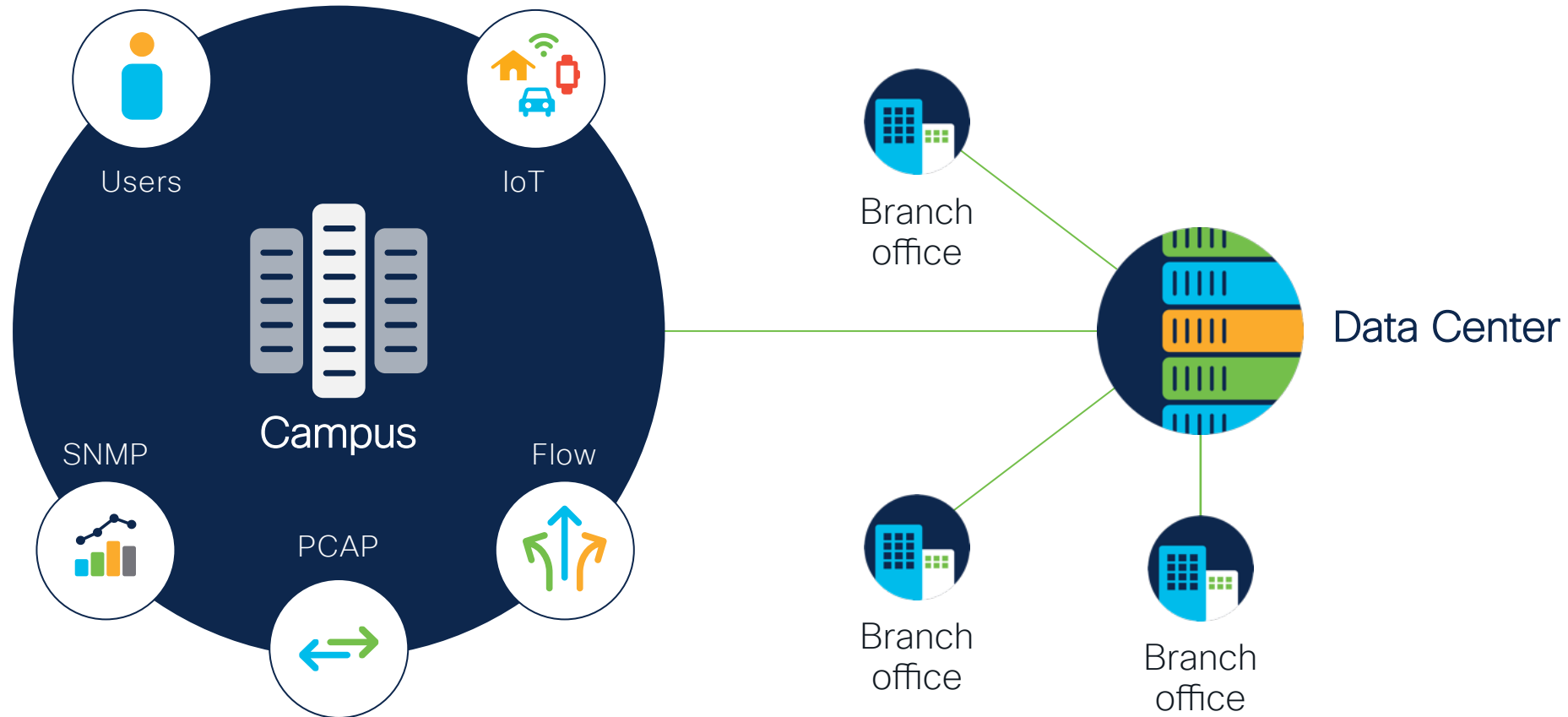


...flow of
thought to stay
uninterrupted



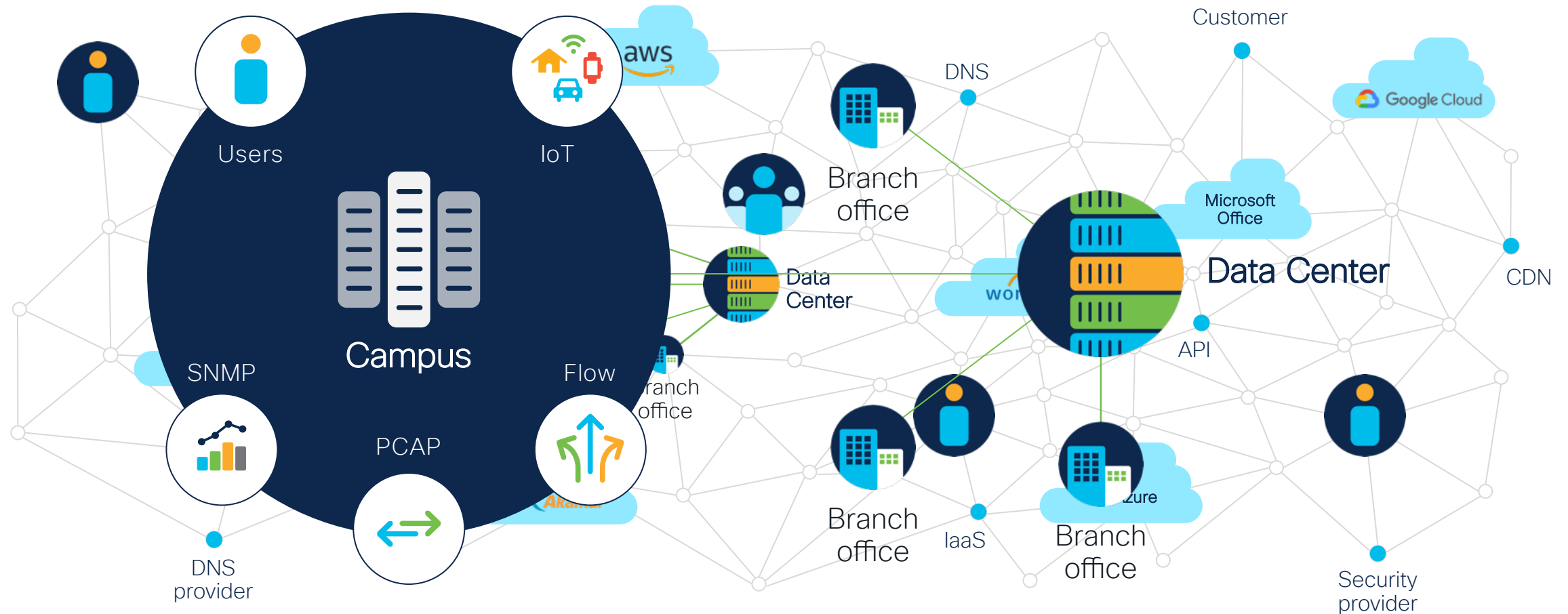
...keeping the
attention focused
on the dialogue

You used to control everything



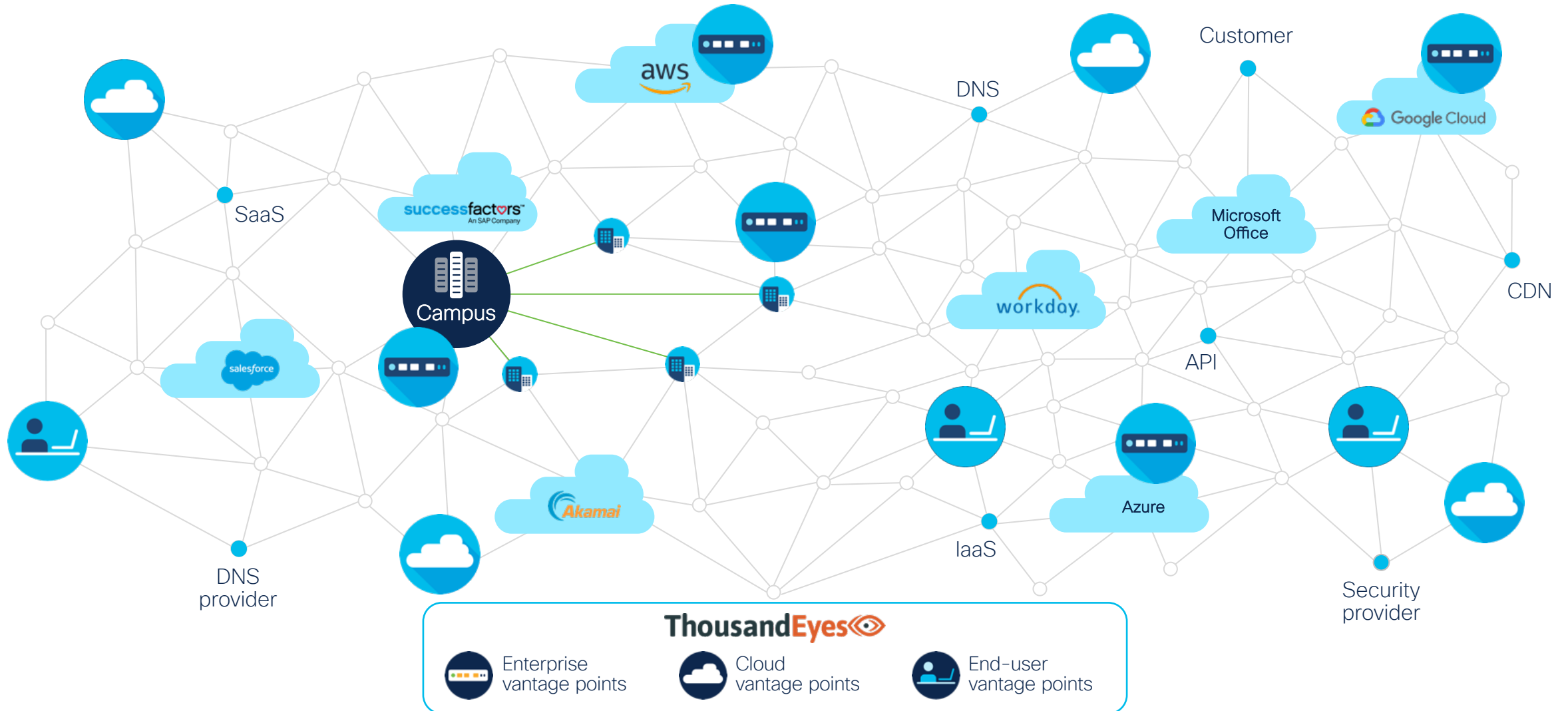
IT managed digital experience by controlling networks and applications

Now your world has changed



Digital experience relies on service providers and networks outside of IT's control

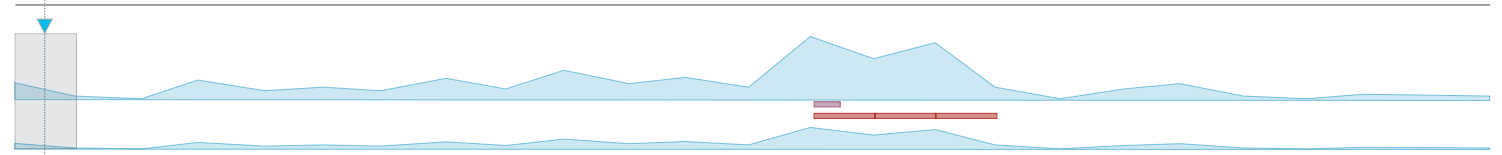
Delivering visibility for the new enterprise reality



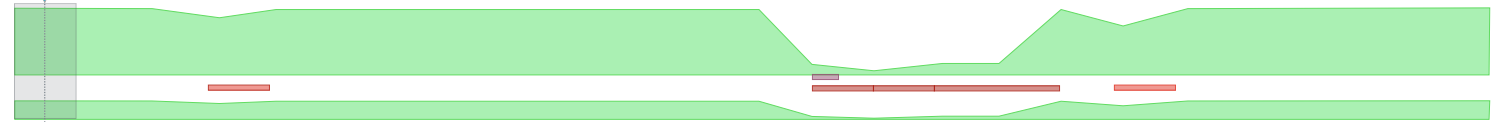
Deep visibility into every layer

Time Correlated

App experience



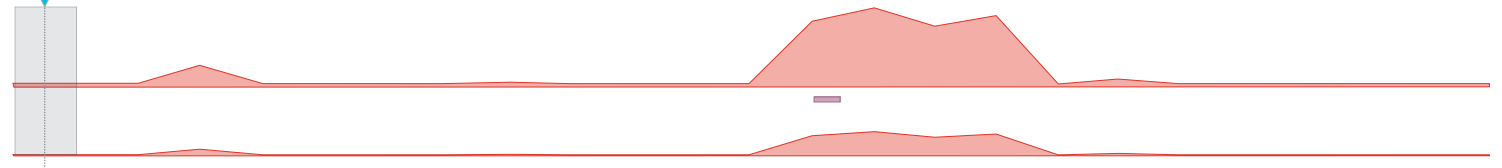
HTTP/DNS/RTP server



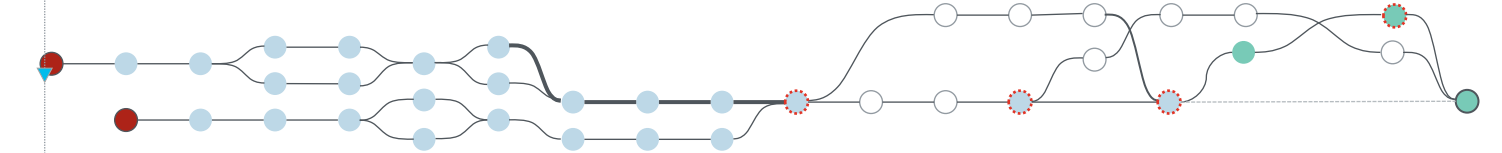
Scope and domain



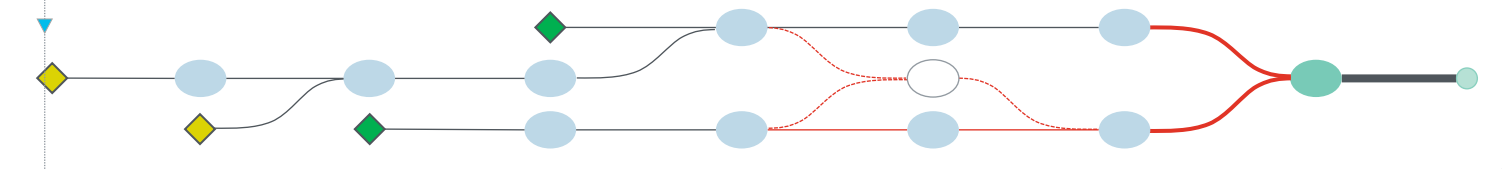
Network metrics



Network path



BGP monitoring



Actionable insights across any network and app

Network visibility

- End-to-end network path and metrics across any network
- Identify issues down to the service provider, location, and interfaces



App experience

- Quickly isolate issues to application, network, or other service
- Understand performance of user interactions with applications



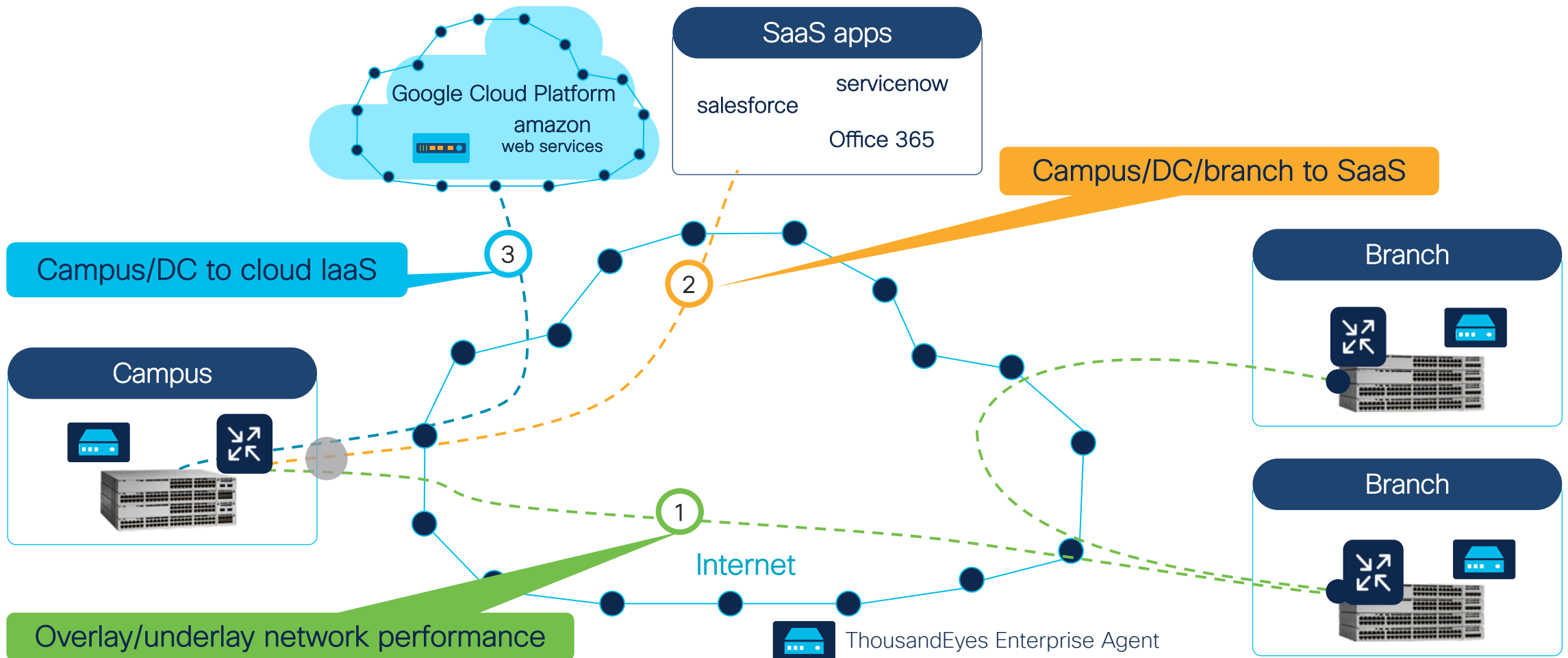
Correlated insights

- Correlate network and app issues with internet routing, internal network devices, and global outage events



Service assurance is beyond the enterprise domain

Use cases for ThousandEyes Enterprise Agent



Service assurance on Catalyst 9000 with ThousandEyes

Path visualization



- End-to-end path from branch/campus to data center/cloud
- Detailed hop-by-hop metrics

Application experience

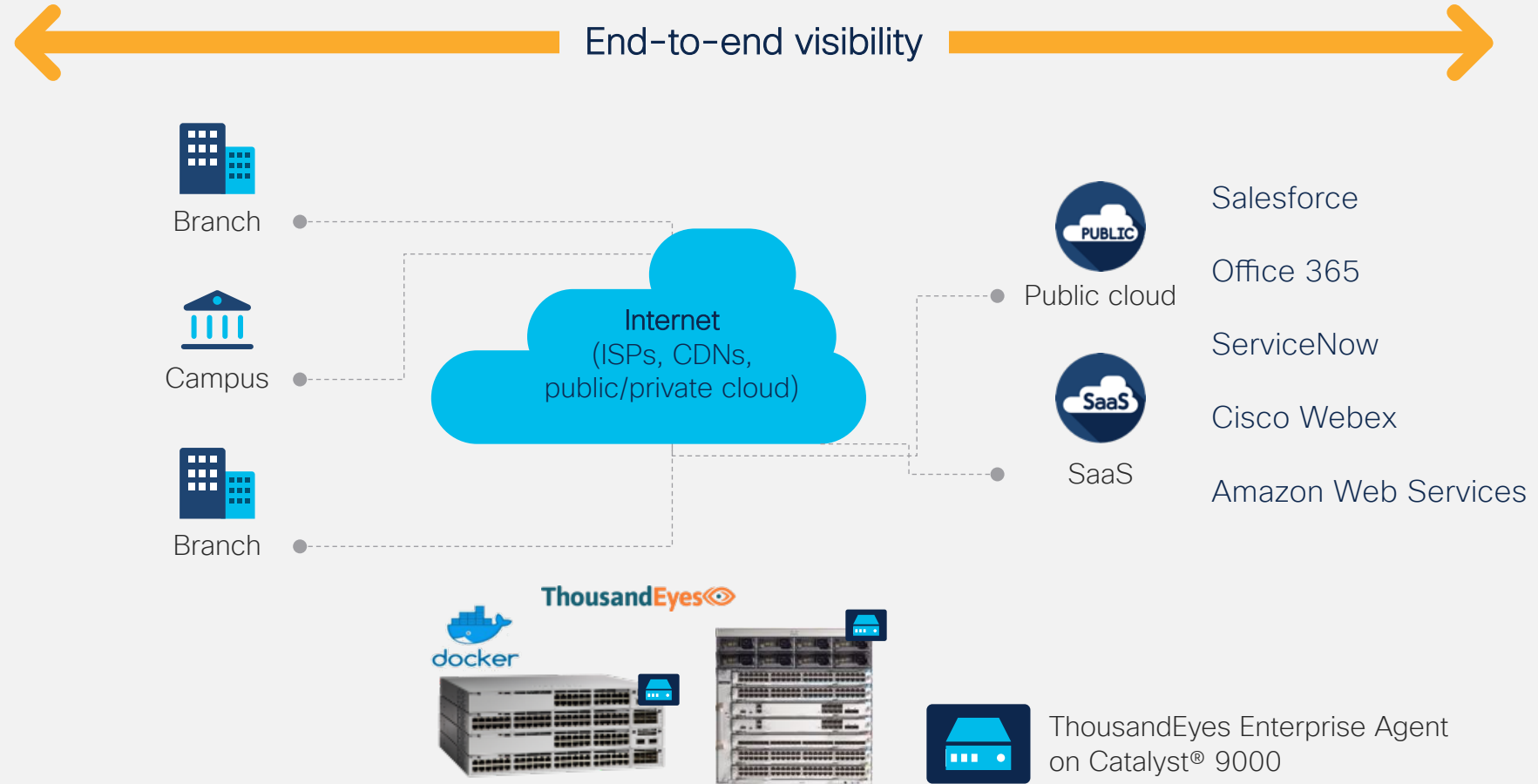


- Analysis of user experience
- Visualization of traffic flow patterns

Anomaly detection



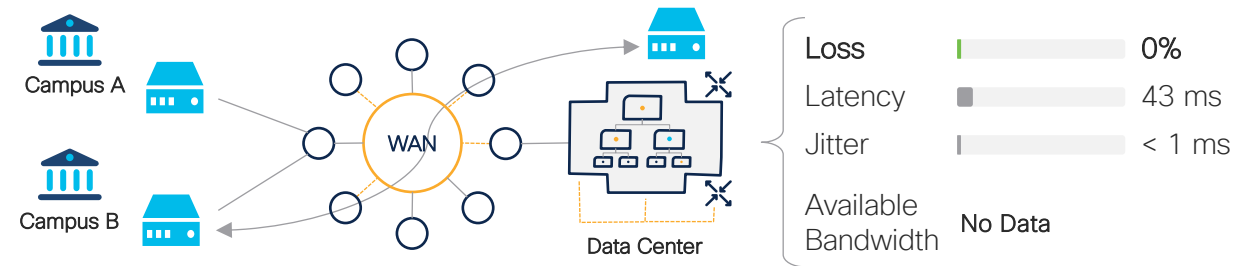
- Benchmark routine performance of network and applications
- Proactive resolution, and outage detection



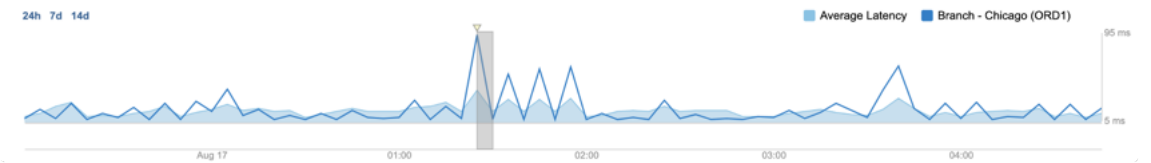
Troubleshooting SaaS and monitoring campus performance

Agent to agent/server

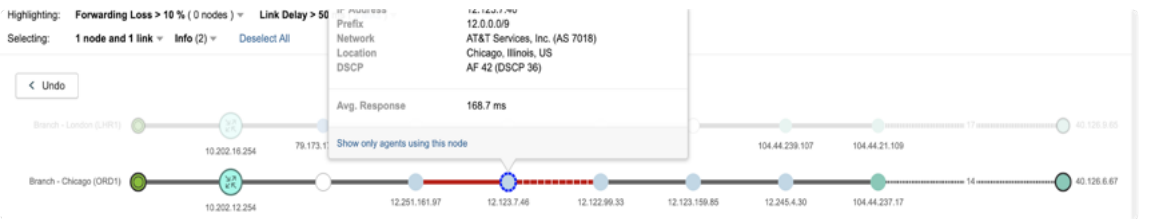
- Identifying **poor user experience**
 - Did traffic hand off to SaaS app optimally?
 - Was there an outage within the enterprise, WAN, or SaaS backbone?
- Having **full path visibility** to identify and resolve issues
- Active monitoring for **latency, loss, bandwidth, jitter**



Historical performance view



Path visualization

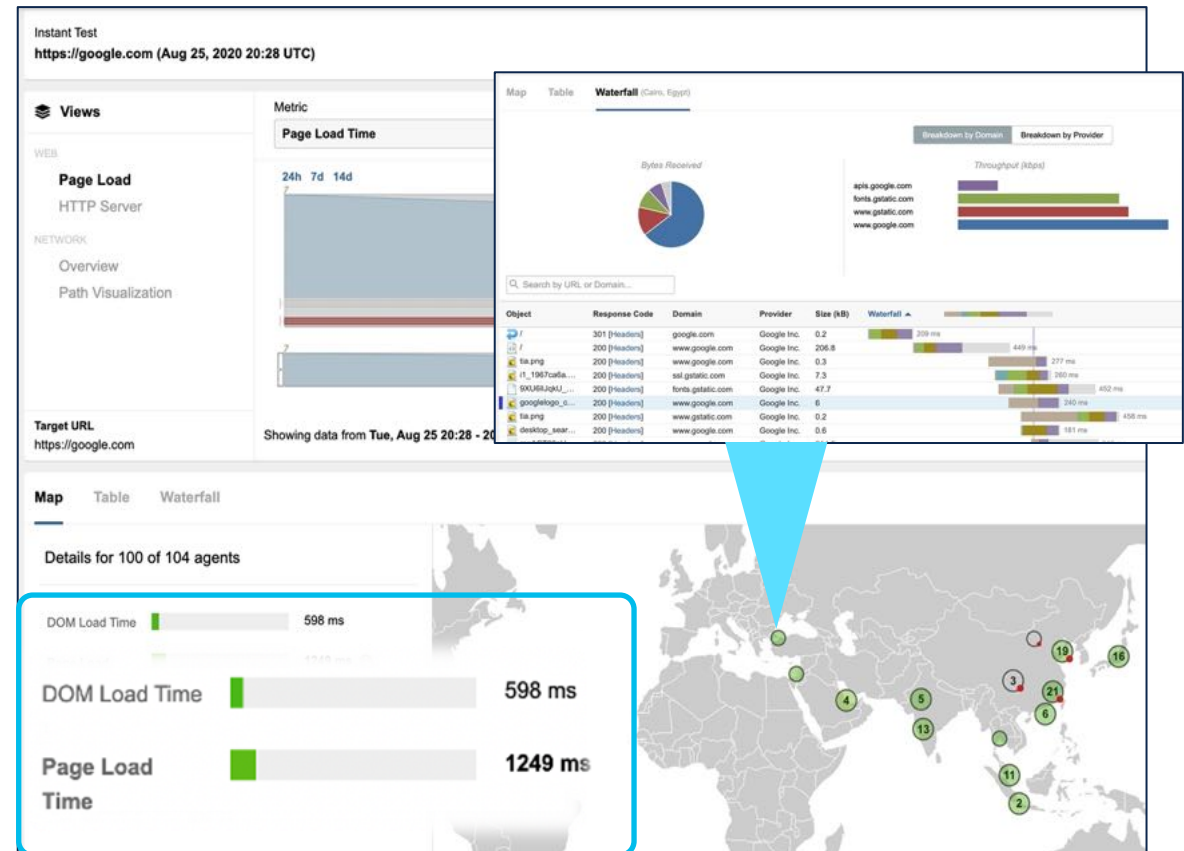


Hop-by-hop view of network paths and performance with proactive, customizable alerts

Web performance monitoring

- **Web tests:** HTTP, page load, transaction
- Monitor and validate web applications' usability and performance, including SaaS and internally-hosted apps
- **HTTP Server Test**
 - Measure availability, response time and throughput of an HTTP service
- **Page Load Tests**
 - Measure page load times of individual web components using **waterfall analysis**
- **Transaction Tests**
 - Monitor application usability by emulating user journey through an app with multi-step transactions scripts
 - Validate third-party API performance and application logic of complex workflows

Page load test view



DNS performance monitoring

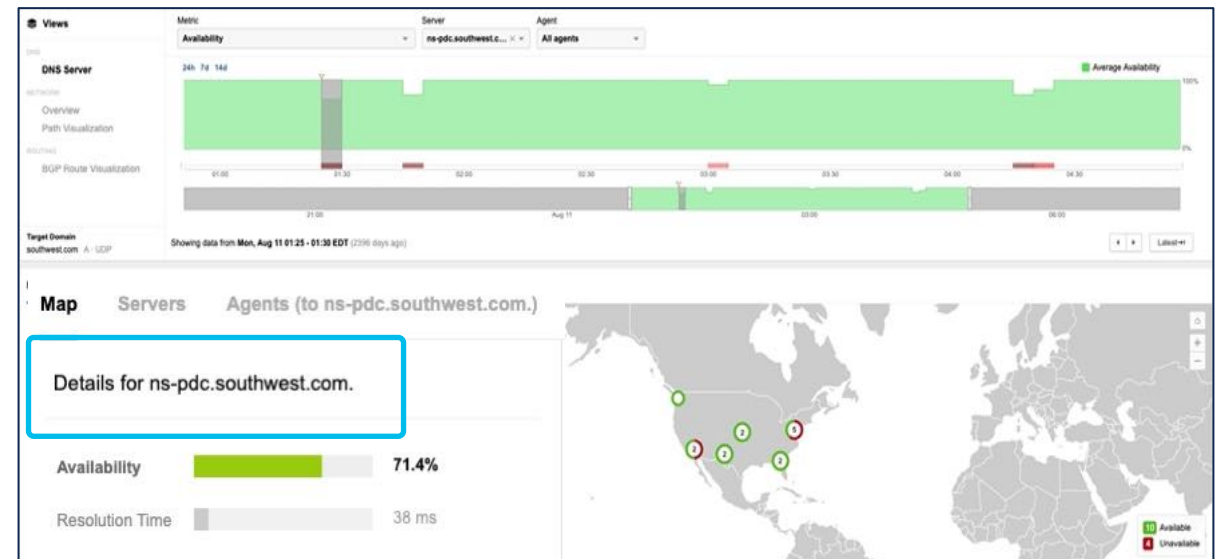
DNS: Critical component of app delivery and security

- No DNS, No Digital Experience
- Unreachable DNS server, tampered DNS records renders an application unavailable

Proactively monitor DNS Performance with

- DNS Server Test: Availability, performance and network connectivity to authoritative DNS servers
- DNS Trace: Ensure availability, query times and accuracy of DNS records and mappings
- DNSSEC: Validate the security trust tree, typically used to protect the integrity of DNS records

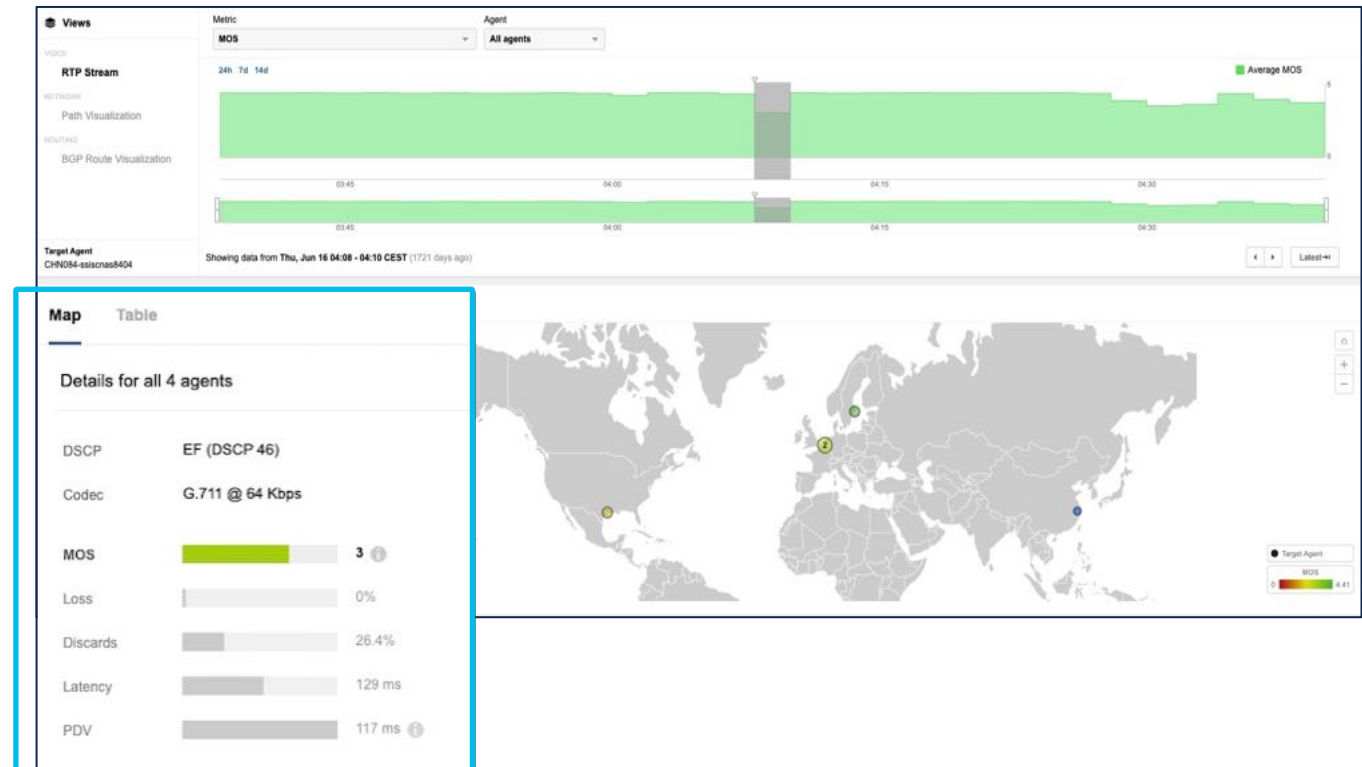
DNS server test view



Map	Servers	Agents (to ns-pdc.southwest.com.)			
Agent	Date (EDT)	Mappings	Error Details ↓	Resolution Time (ms)	
Las Vegas, NV	2014-08-11 01:25:23	---	Could not reach name server	---	
Charlotte, NC	2014-08-11 01:25:14	---	Could not reach name server	---	
Philadelphia, PA	2014-08-11 01:25:27	---	Could not reach name server	---	
Boston, MA	2014-08-11 01:26:05	---	Could not reach name server	---	

Troubleshooting VoIP

- VoIP packets are **extremely susceptible** to underlying network conditions that traditional VoIP monitors can't detect
- **Simulate VoIP calls** between Enterprise Agents in branch office
- Measure Session Initiation Protocol (SIP) and Real-Time Transport Protocol (RTP) **server availability**, monitor MoS scores and detect when and where QoS changes impact voice quality



Integration with DNA Center

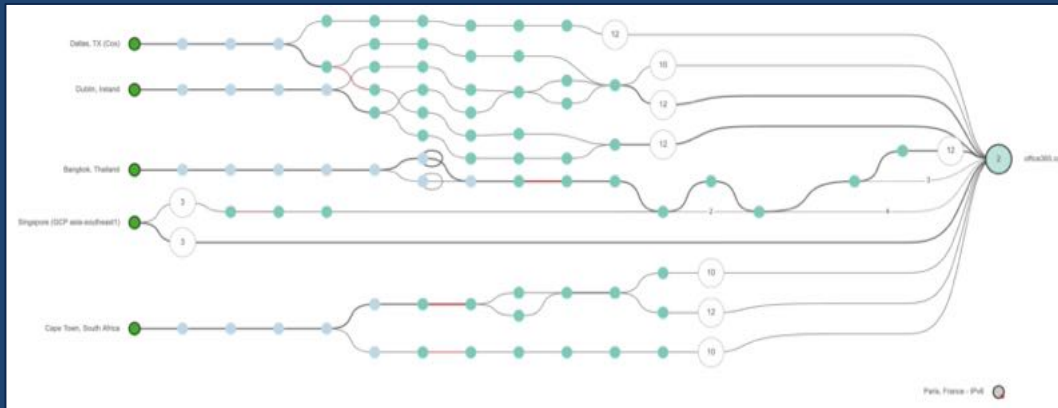
Demo



Conclusion

Conclusion

← End-to-end visibility with ThousandEyes →



Key benefits

- **Service assurance:** Help ensure performance of critical business apps with groundbreaking observability across LAN, WAN, service providers, and cloud/SaaS networks
- **Rapid remediation:** Quickly locate issues across LAN, service providers, and cloud/SaaS networks
- **Simple deployment:** ThousandEyes Enterprise Agent is natively hosted on your Cisco Catalyst 9300 and 9400 Series Switches with Cisco DNA Center

Questions?



OUTLOOK Upcoming Virtual Espresso

- Blog:
<http://cs.co/vEspresso>
- Topics:
 - 23.02.2022: Netzwerk Trends in der hybriden Arbeitswelt
 - 09.03.2022: Switching Innovations
 - 23.03.2022: WiFi Innovations
 - 06.04.2022: Routing Innovations



dankä villmal
grazie mille
merci beaucoup
grazia fitg
thank you

