Assurance Built-In

Leveraging ThousandEyes Integrations to Enhance your Operations

Al da Silva
APJC Solutions Architect - ThousandEyes

Session ID: BRKENT-2529

Cisco Webex App

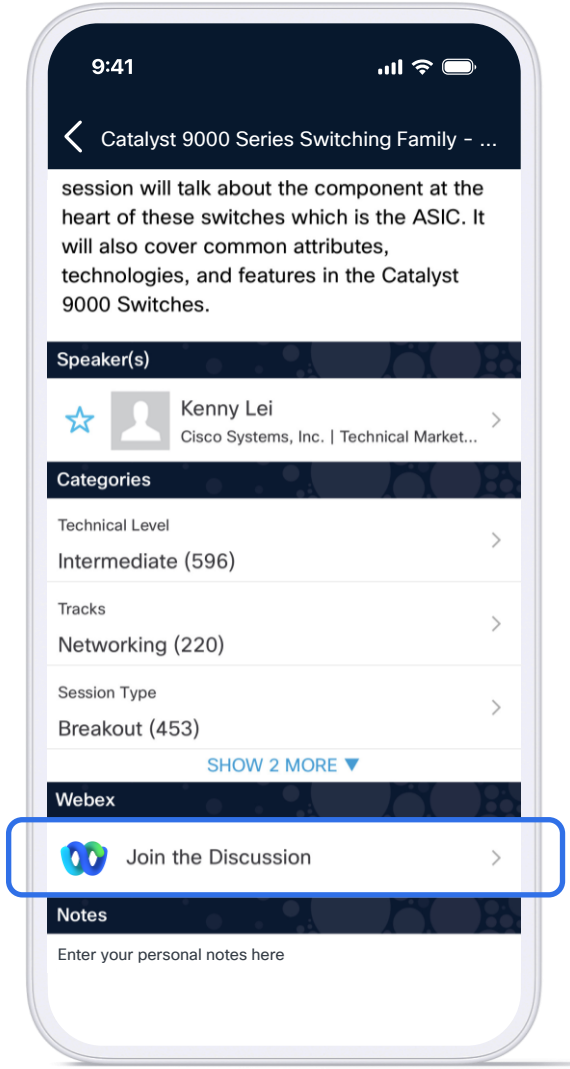
Questions?

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 14 November 2025.



https://ciscolive.ciscoevents.com/
ciscolivebot/**#BRKENT-2529**

© 2025 Cisco and/or its affiliates. All rights reserved.

Agenda

01 ThousandEyes Refresher

02 Traffic Insights

03 Cloud Insights

04 Splunk Integration

05 Q&A

© 2025 Cisco and/or its affiliates. All rights reserved.

Introduction

Al

Work

- 20+ Years
- Specialist Roles
- Multiple Organisations

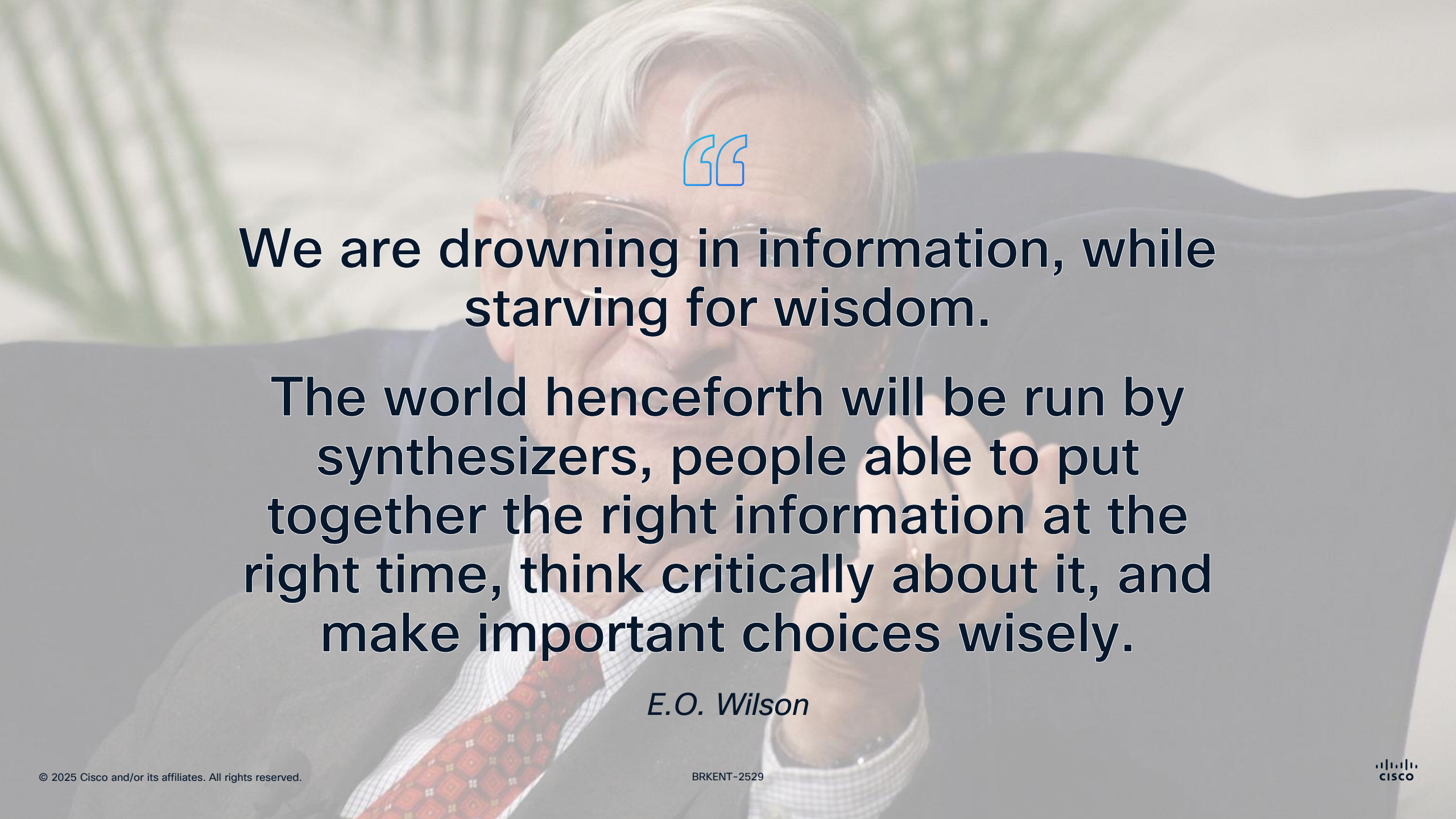
Fun

- Cycling
- Travel
- Photography
- Flying

© 2025 Cisco and/or its affiliates. All rights reserved.

ThousandEyes helps you see beyond your environment, act with precision, provide performance assurance of any connected experience—across owned and unowned networks.

© 2025 Cisco and/or its affiliates. All rights reserved.



“

We are drowning in information, while starving for wisdom.

The world henceforth will be run by synthesizers, people able to put together the right information at the right time, think critically about it, and make important choices wisely.

E.O. Wilson

© 2025 Cisco and/or its affiliates. All rights reserved.

cisco

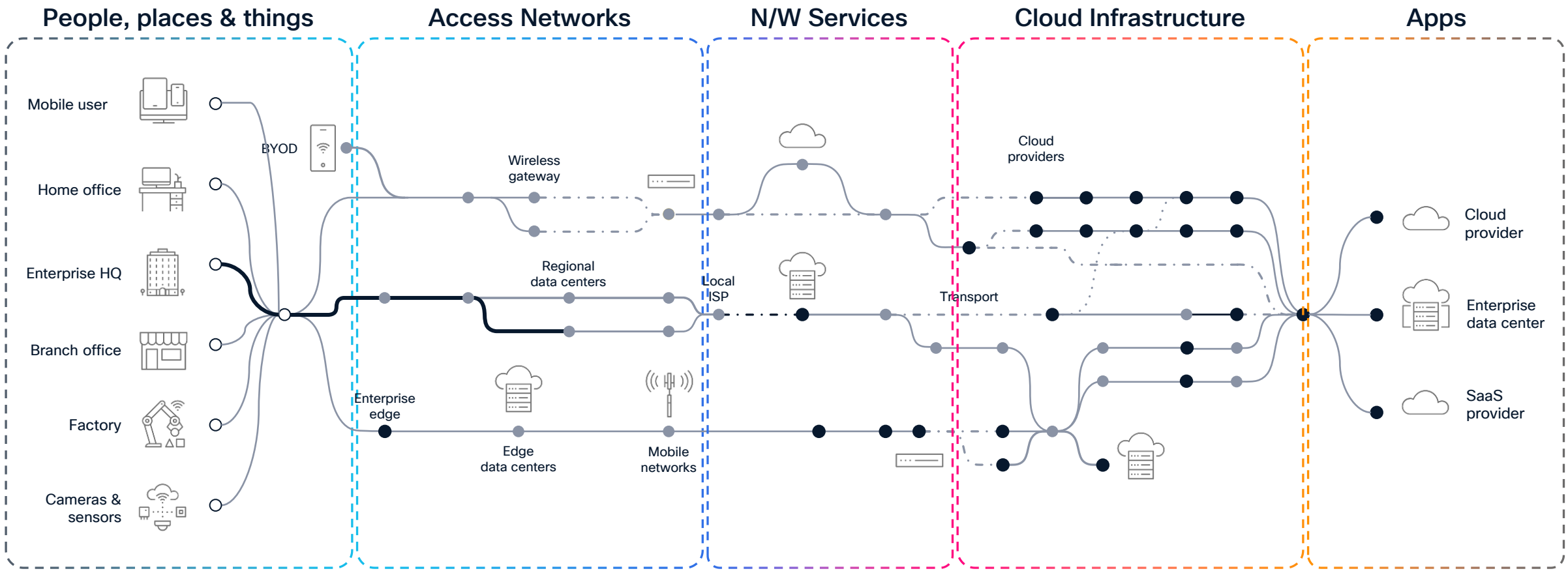
How does Assurance differ from monitoring?

Monitoring		Assurance
Tells you *something* is broken	⇨	Analyses performance to prevent breakage
Gives you alerts, but you still need to investigate	⇨	Actionable intelligence and recommendations
Usually limited to a single domain (infra, app, cloud, etc.)	⇨	Multi-domain context on *how* services interact and impact on each other
INFORMATION	⇨	WISDOM

© 2025 Cisco and/or its affiliates. All rights reserved.

cisco

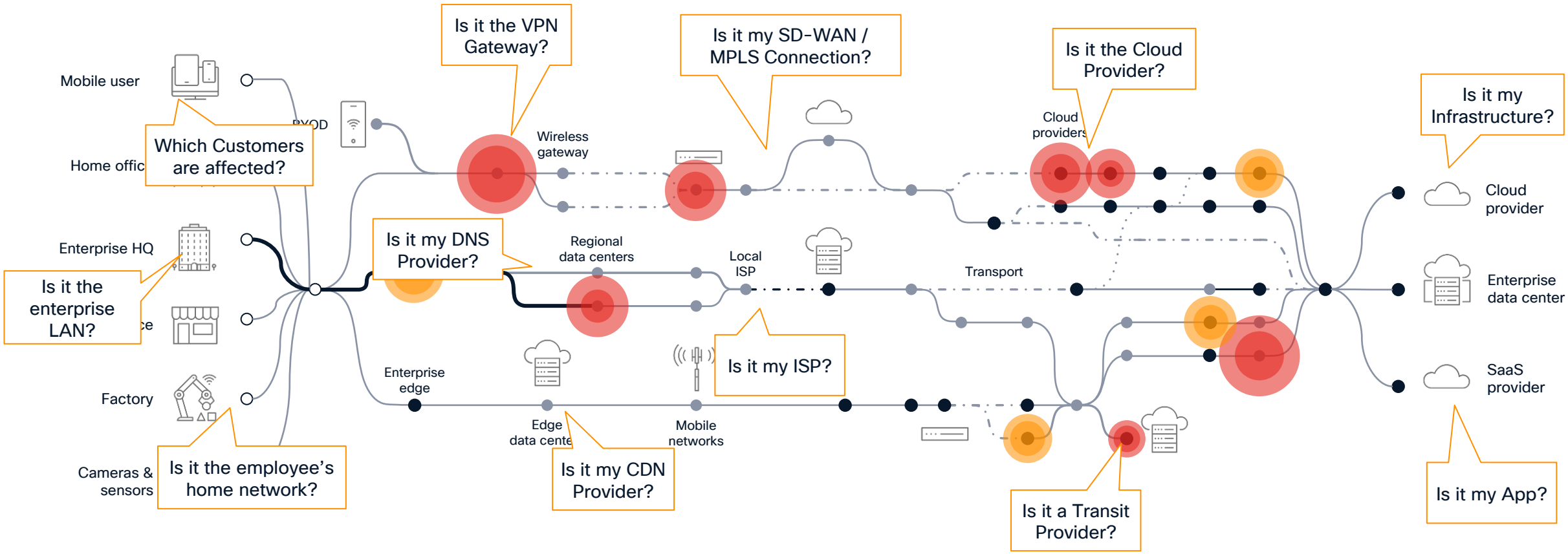
Digital Experiences Span Owned and Unowned Networks



Silos of people, tools and data increase complexity | AI-powered workflows introduce new demands

© 2025 Cisco and/or its affiliates. All rights reserved.

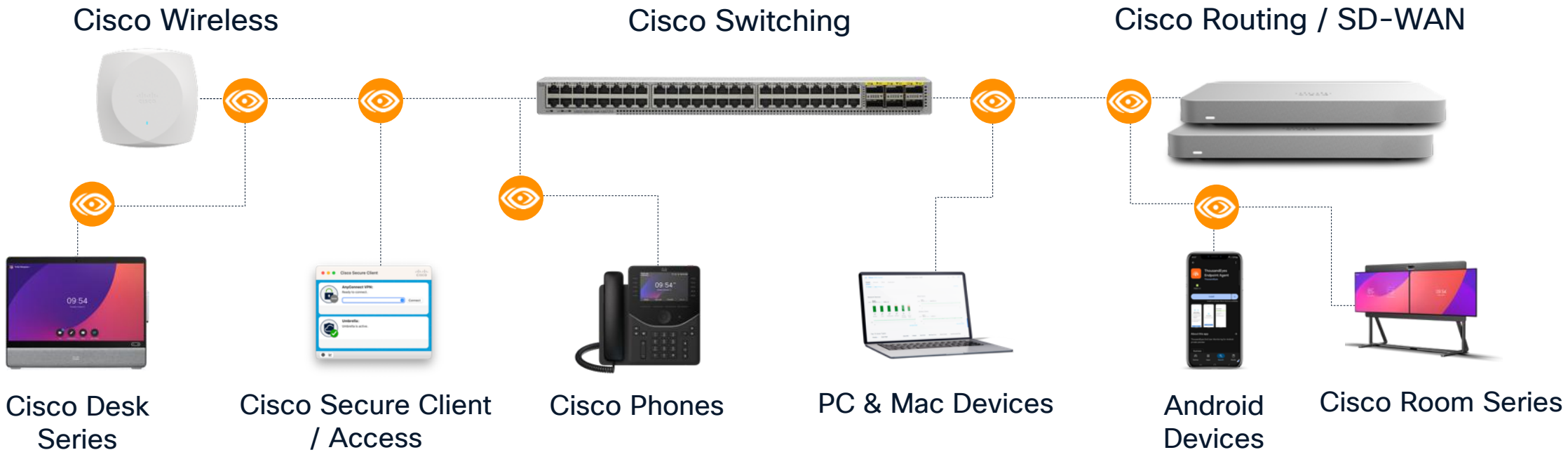
Digital Experiences Span Owned and Unowned Networks



Silos of people, tools and data increase complexity | AI-powered workflows introduce new demands

© 2025 Cisco and/or its affiliates. All rights reserved.

With Cisco, Assurance is built-in



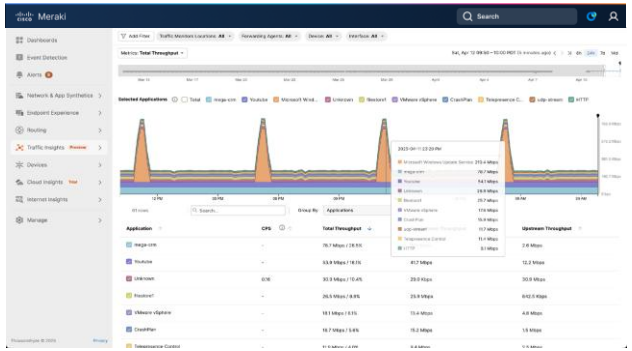
AI-driven Intelligence + splunk> a cisco company integration

© 2025 Cisco and/or its affiliates. All rights reserved.

Three key integrations

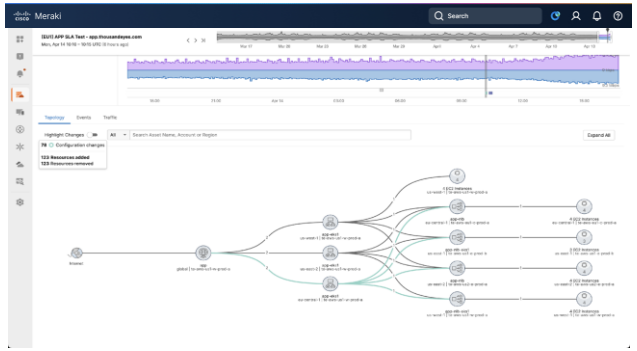
Traffic Insights

Smarter visibility and planning for enterprise networks



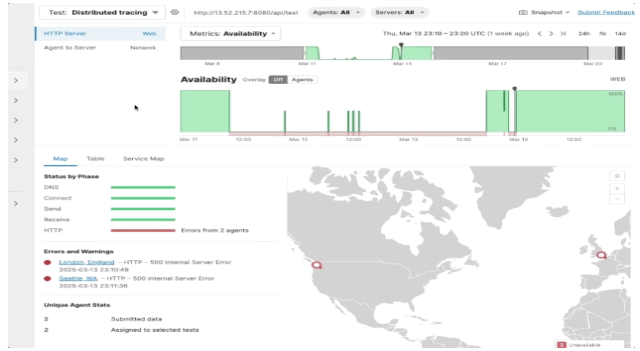
Cloud Insights

Extends visibility into multi-cloud environments



Splunk

End-to-end app to network assurance

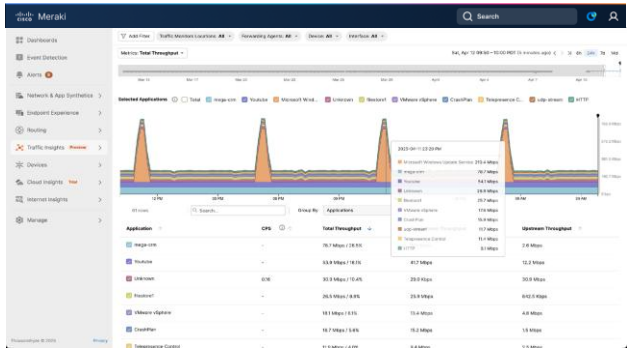


© 2025 Cisco and/or its affiliates. All rights reserved.

Three key integrations

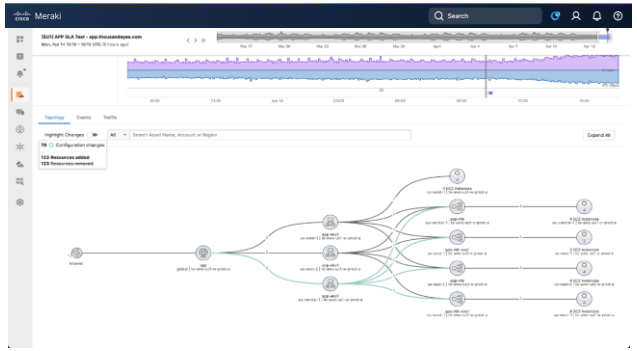
Traffic Insights

Smarter visibility and planning for enterprise networks



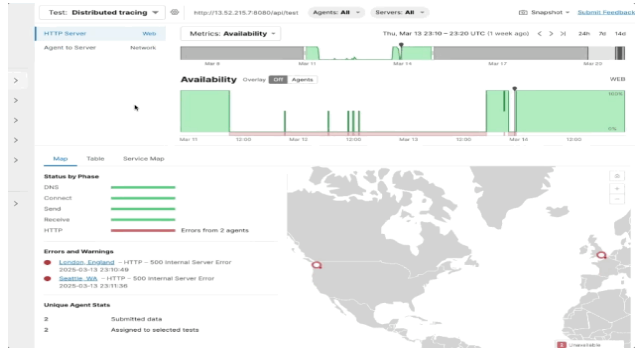
Cloud Insights

Extends visibility into multi-cloud environments



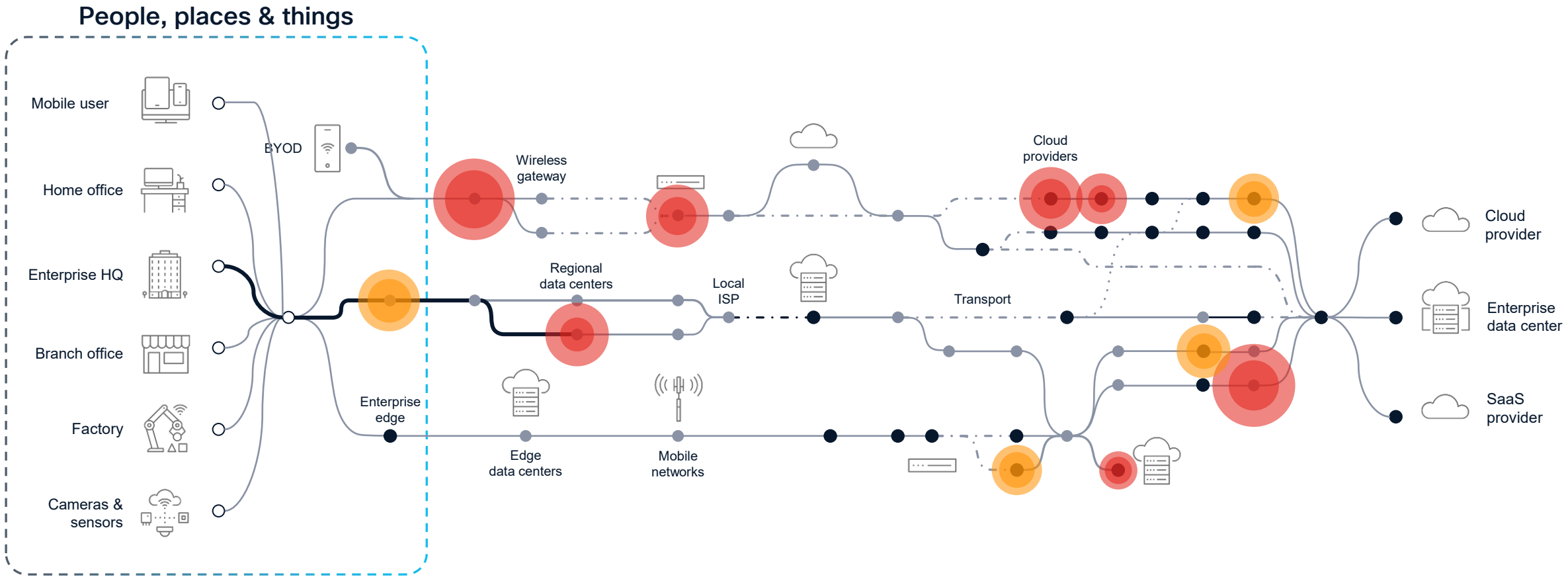
Splunk

End-to-end app to network assurance



© 2025 Cisco and/or its affiliates. All rights reserved.

Digital Experiences Span Owned and Unowned Networks

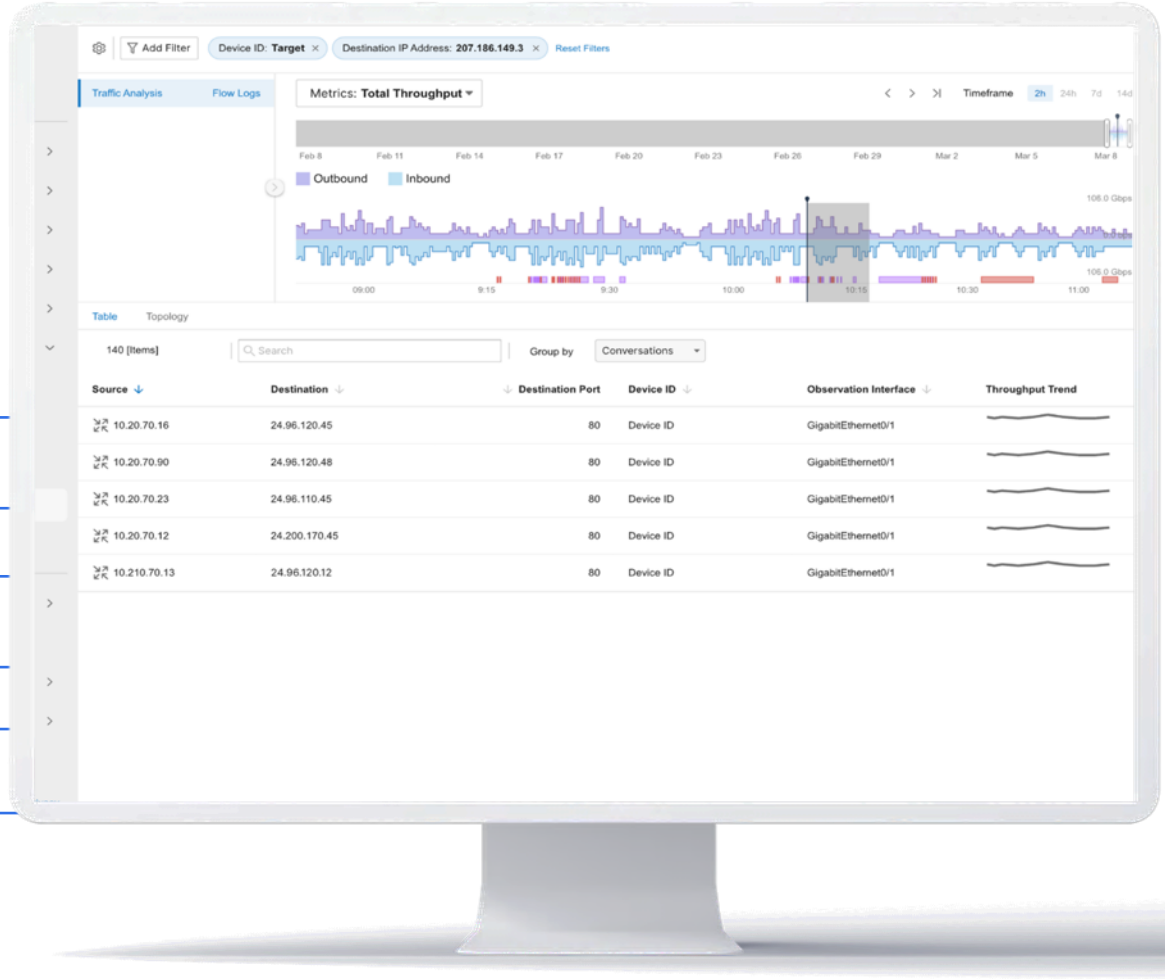


© 2025 Cisco and/or its affiliates. All rights reserved.

ThousandEyes Traffic Insights

Traffic Insights helps ThousandEyes users visualize how traffic is impacting experience—so they can resolve business-critical issues effectively.

- Analyze flow logs to see all traffic
- Proactive optimize performance
- Correlate flow with synthetics for context

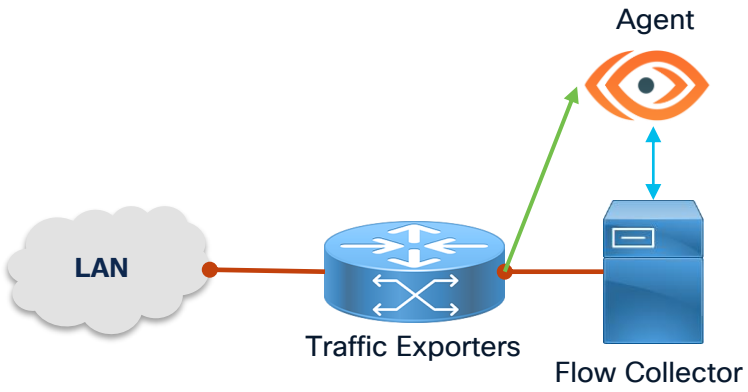


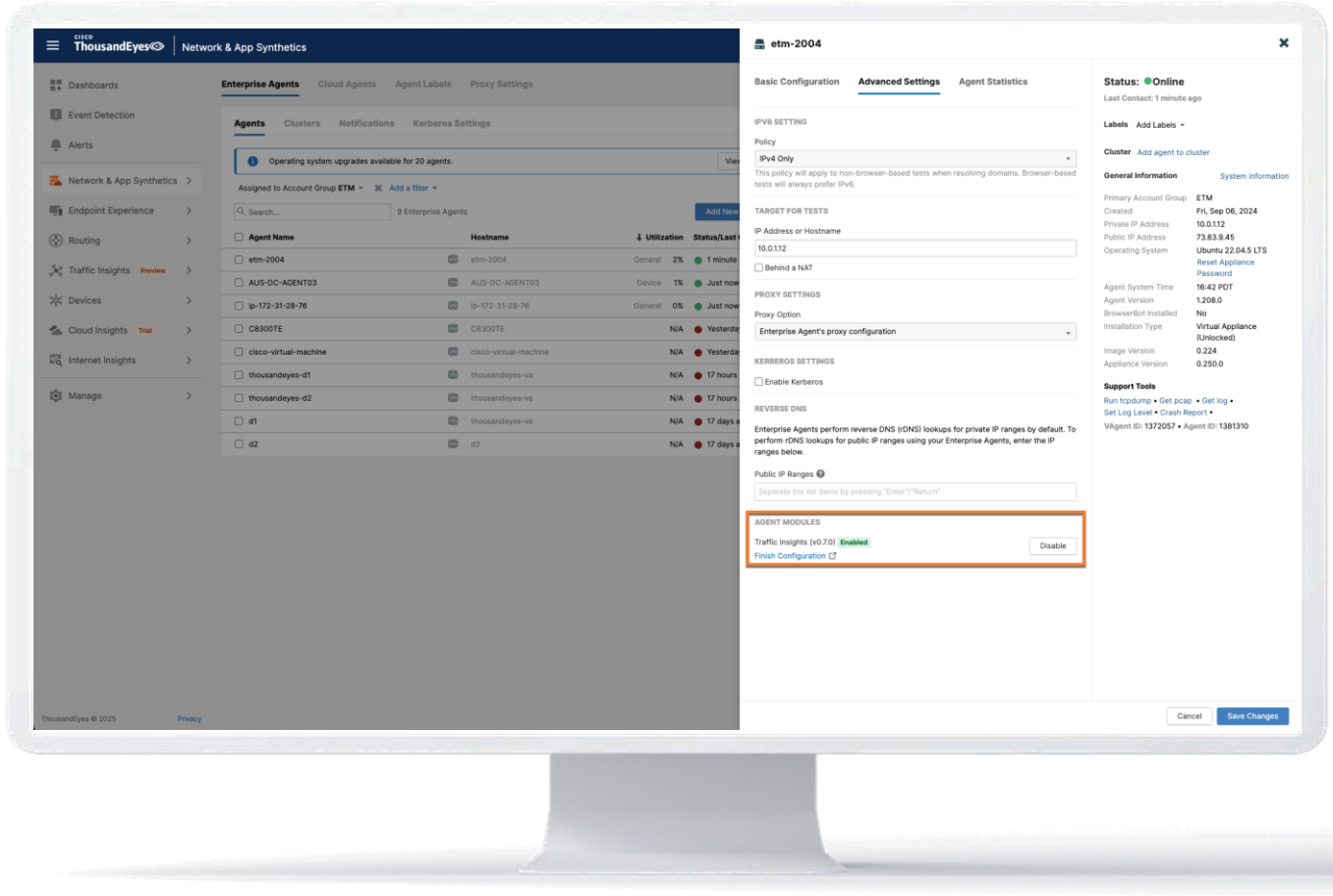
© 2025 Cisco and/or its affiliates. All rights reserved.

Traffic Insights Demo

How does the integration work?

- Enable Traffic Insights on Enterprise Agent
  - TEVA & CAF (Router) agents only
- Send Netflow v9 and/or IPFIX logs to agent(s) from devices in your network
  - Forwarding can be done directly from devices or netflow collector





- Allow collection from detected sources

Caveats

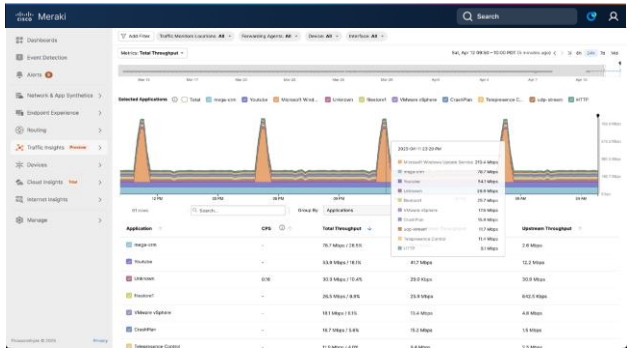
- Agent Restrictions - https://docs.thousandeyes.com/product-documentation/traffic-insights/traffic-insights-system-requirements#agent-restrictions
- Minimum Required Fields - https://docs.thousandeyes.com/product-documentation/traffic-insights/traffic-insights-system-requirements#minimum-fields-required

© 2025 Cisco and/or its affiliates. All rights reserved.

Three key integrations

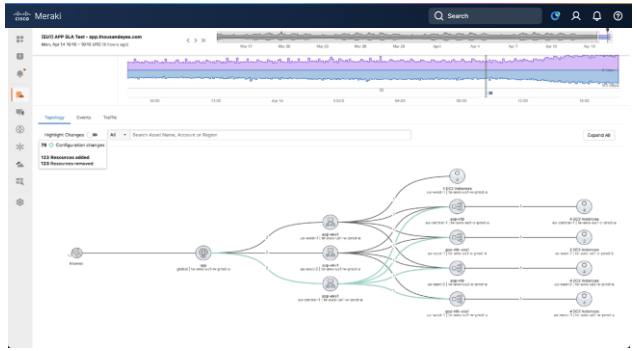
Traffic Insights

Smarter visibility and planning for enterprise networks



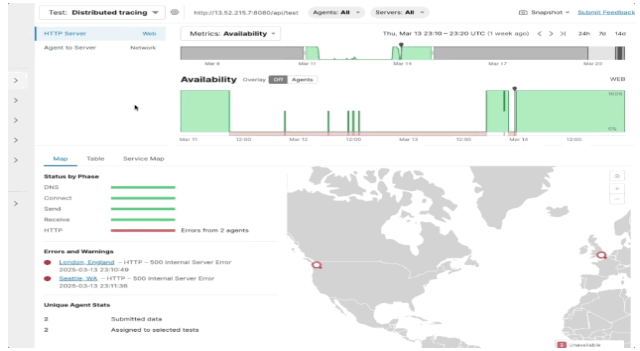
Cloud Insights

Extends visibility into multi-cloud environments



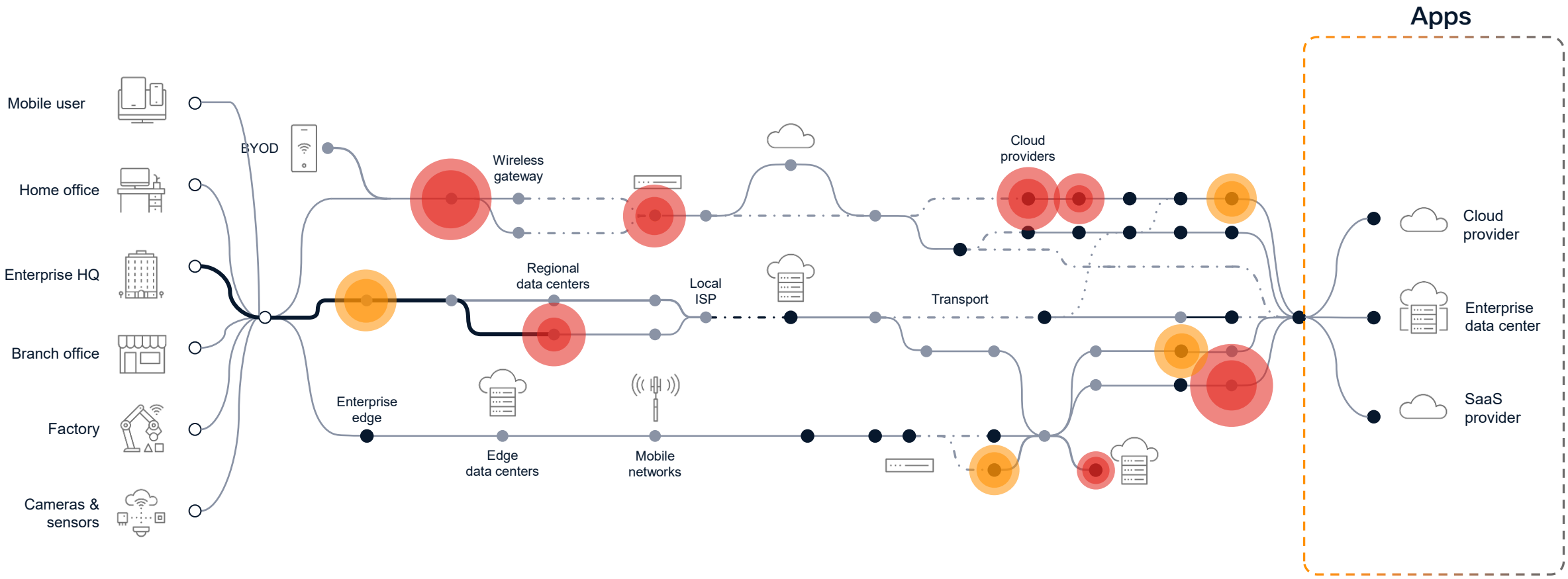
Splunk

End-to-end app to network assurance



© 2025 Cisco and/or its affiliates. All rights reserved.

Digital Experiences Span Owned and Unowned Networks



© 2025 Cisco and/or its affiliates. All rights reserved.

Customer Cloud Tenancy Challenges

Lack in-depth cloud monitoring (virtualized, dynamic and complex)

Difficult to make sense of cloud environments and how network traffic traverse public cloud

Manually correlating cloud provider configurations and traffic to digital experiences

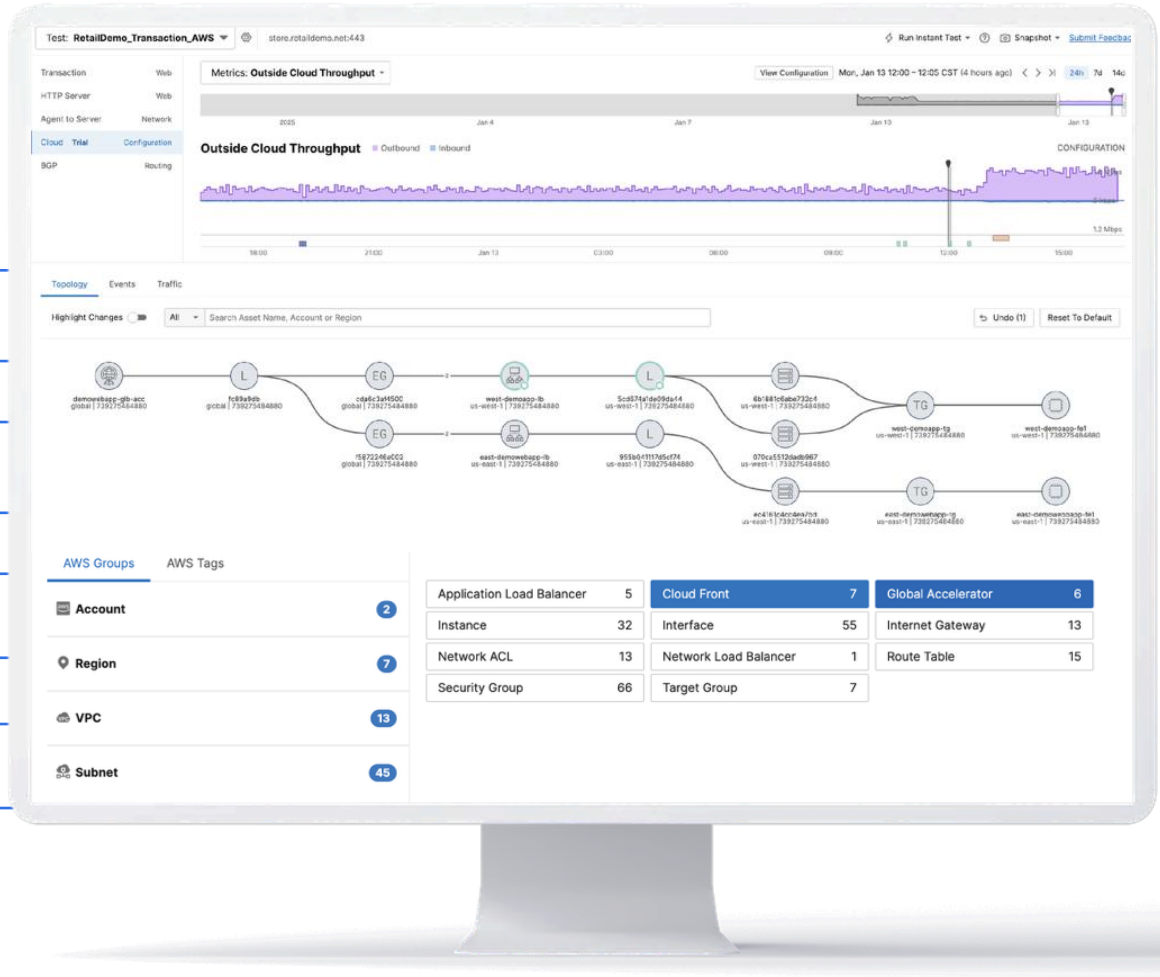
Managing multiple cloud provider accounts and troubleshooting issues within each account

© 2025 Cisco and/or its affiliates. All rights reserved.

ThousandEyes Cloud Insights

Cloud Insights provides deep visibility into public cloud infrastructure and service dependencies that impact digital experiences to dramatically reduce MTTR

- View Cloud Inventory
- Cloud Path Enrichment and Topology Visualization
- Correlated Cloud Infrastructure Changes
- Cloud Traffic Views



© 2025 Cisco and/or its affiliates. All rights reserved.

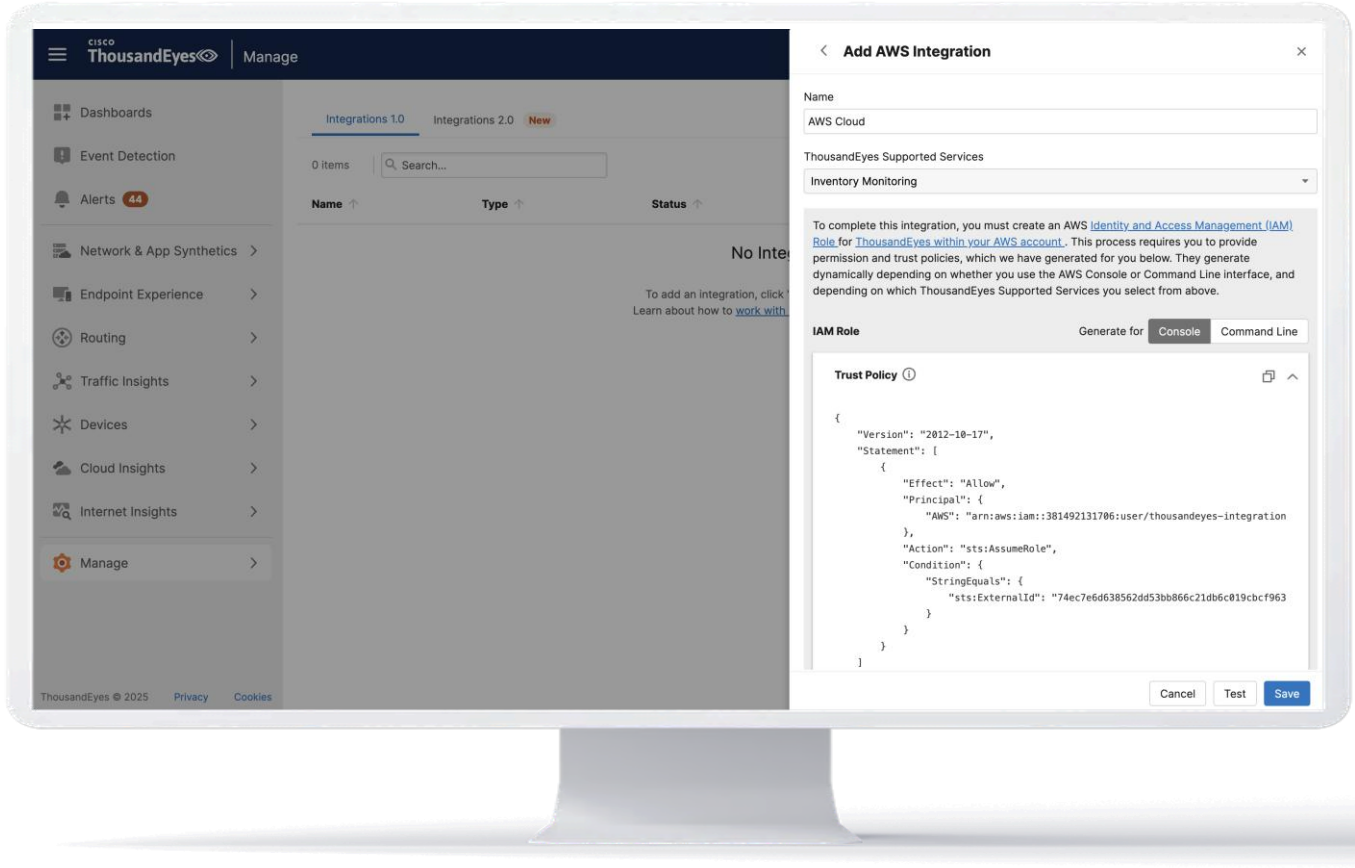
Cloud Insights Demo

How does the integration work?

- Create read-only IAM Role (AWS) and/or Application (Azure)*
- Generate ARN (AWS) and/or App ID & Tenant ID (Azure)*
- Configure the integration through the ThousandEyes UI
- Optionally configure flow collection
- Test to at lease one application

Things to note

- Need an IAM for each account
- Flow logs only for AWS currently



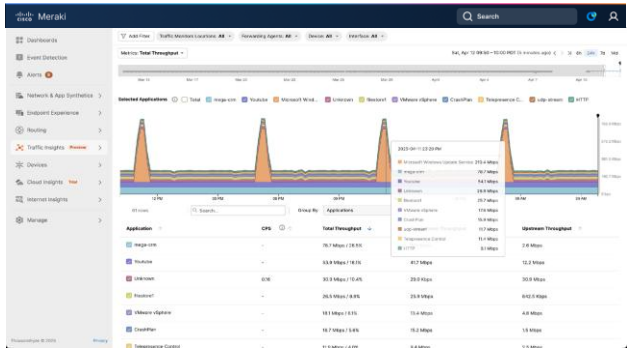
Documentation:
https://docs.thousandeyes.com/product-documentation/integration-guides/custom-built-integrations/aws-for-cloud-insights (AWS)
https://docs.thousandeyes.com/product-documentation/integration-guides/custom-built-integrations/azure-for-cloud-insights (Azure)

© 2025 Cisco and/or its affiliates. All rights reserved.

Three key integrations

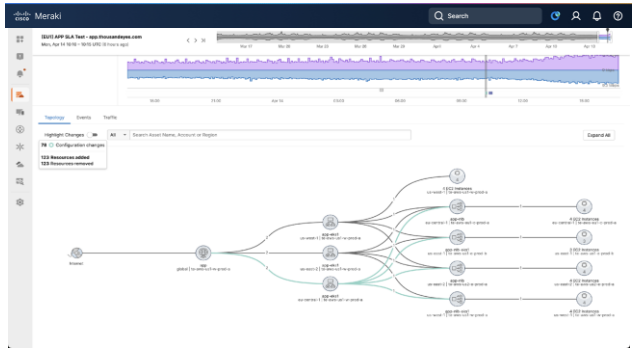
Traffic Insights

Smarter visibility and planning for enterprise networks



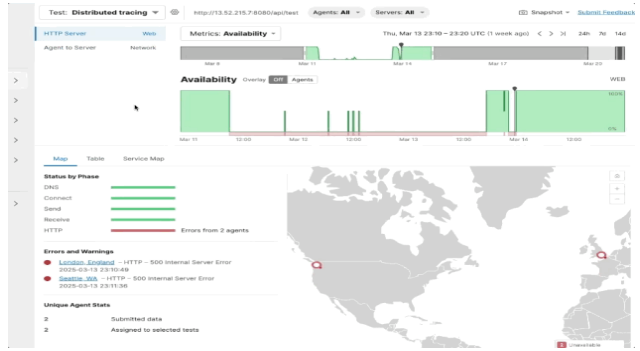
Cloud Insights

Extends visibility into multi-cloud environments



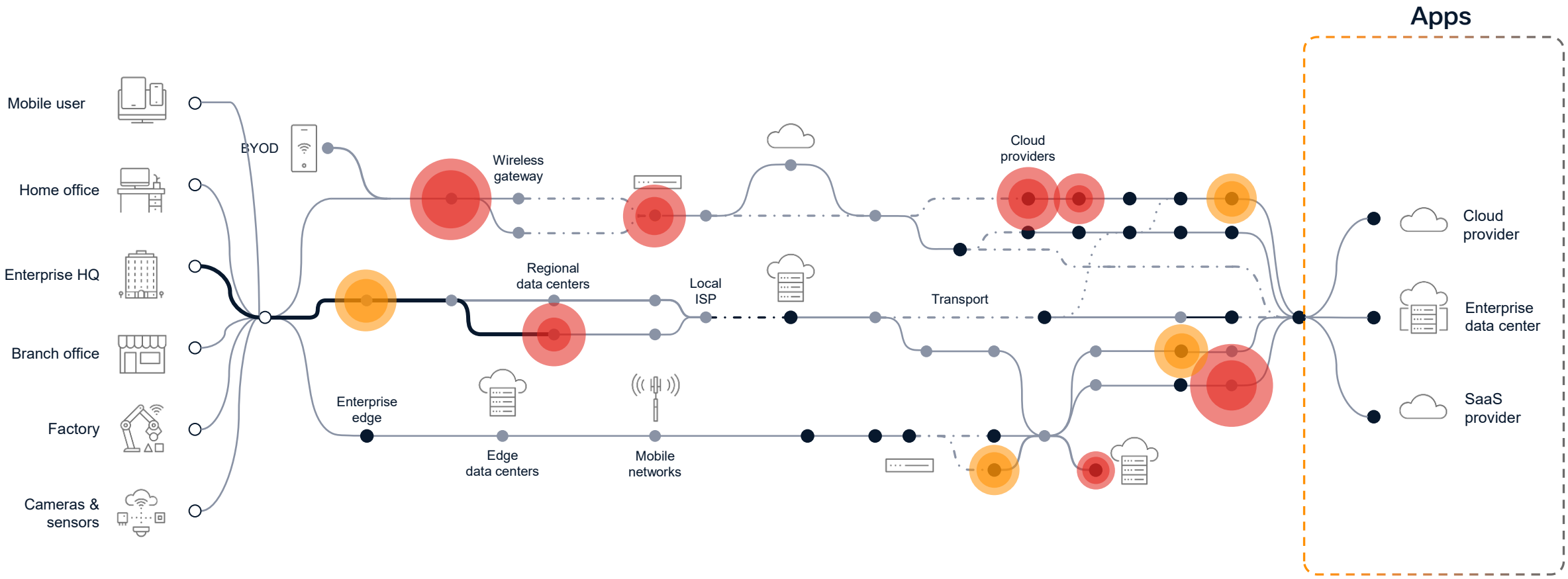
Splunk

End-to-end app to network assurance



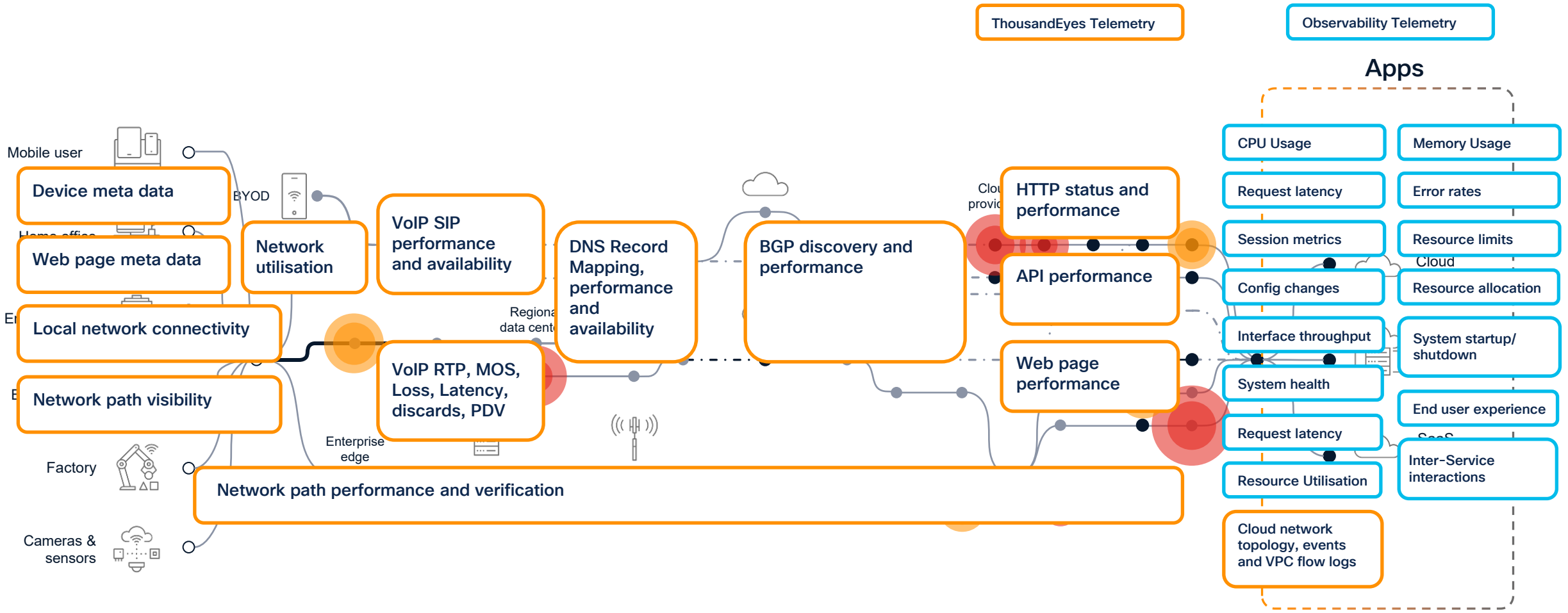
© 2025 Cisco and/or its affiliates. All rights reserved.

Digital Experiences Span Owned and Unowned Networks



© 2025 Cisco and/or its affiliates. All rights reserved.

Digital Experiences Span Owned and Unowned Networks

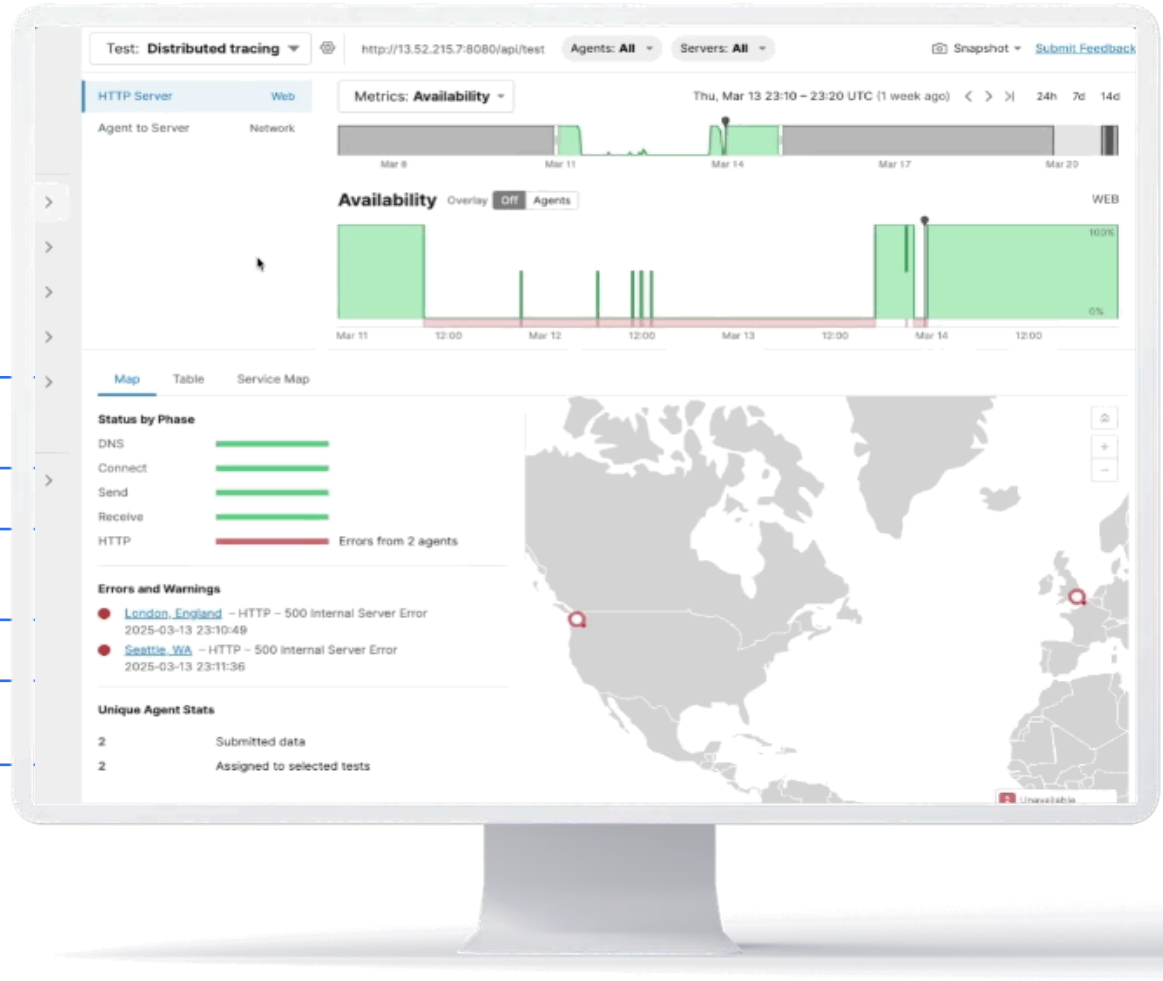


© 2025 Cisco and/or its affiliates. All rights reserved.

Splunk Integration

ThousandEyes Assurance propels Splunk Observability into unowned networks, uniting Cisco's AI-native solutions for unmatched visibility and remediation across the digital supply chain

- ThousandEyes App for Splunk
- Splunk Observability Cloud integration
- Splunk ITSI bi-directional Integration



© 2025 Cisco and/or its affiliates. All rights reserved.

What do we mean when we say Splunk?

- Splunk Enterprise is the core product offered by Splunk.
  - First released in 2006 and has since become the flagship product of the company
  - Self-hosted solution that allows organizations to collect, index, search, analyze, and visualize the data generated by their technology infrastructure, security systems, and business applications.
- Splunk Cloud Platform is essentially Splunk Enterprise offered as a Software-as-a-Service (SaaS) solution.
  - Launched in 2013 to provide customers with the flexibility of the cloud while leveraging the powerful features of Splunk Enterprise.
- Splunk Observability Cloud is a more recent addition to Splunk's product lineup, reflecting the expansion into the observability space.
  - Launched in 2021, following Splunk's acquisitions of SignalFx and Omnition, which helped to bolster its capabilities in monitoring and observability.

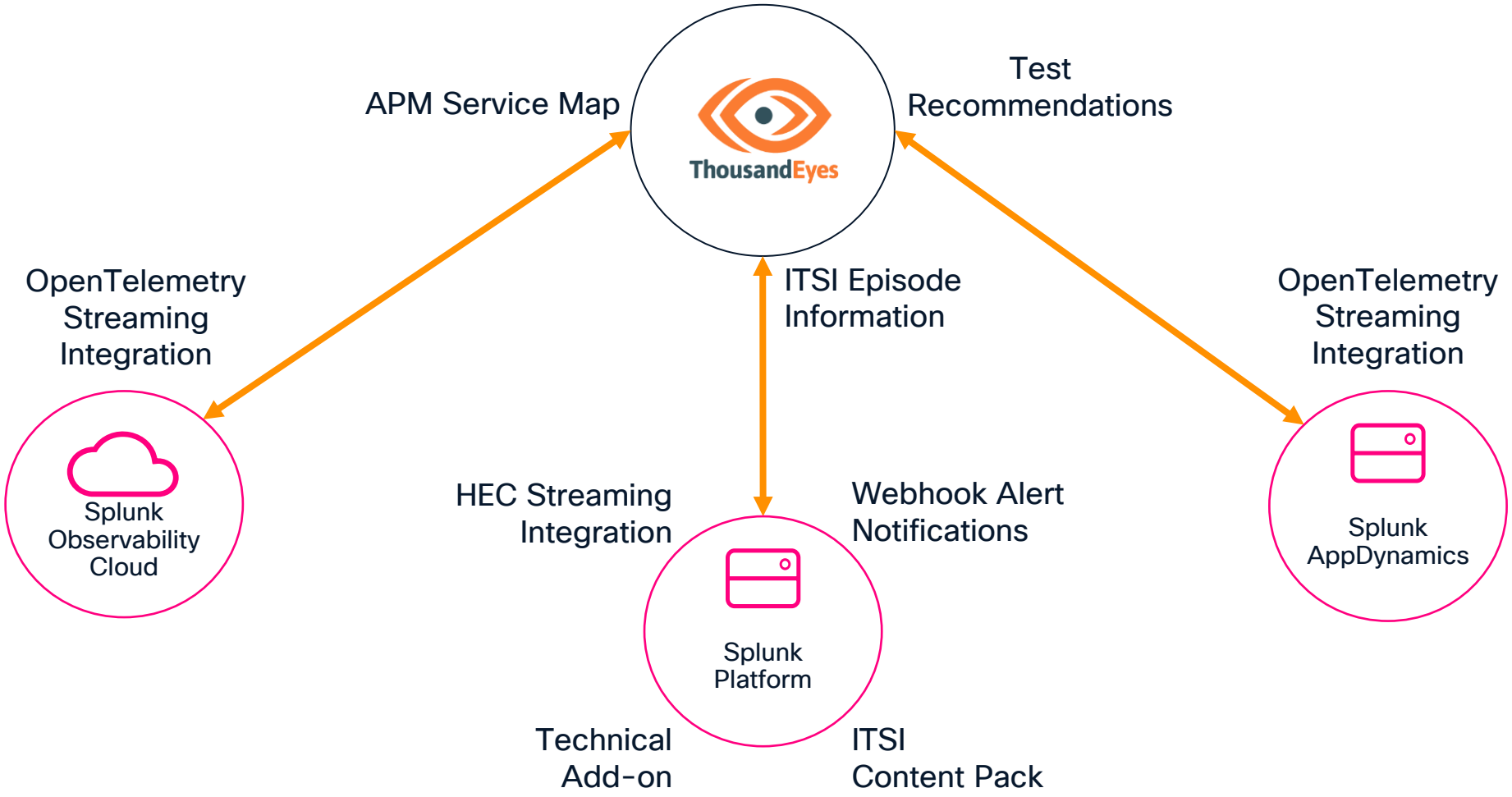
"Splunk Core" or "Splunk Platform"

"Splunk Observability" inc. AppDynamics

© 2025 Cisco and/or its affiliates. All rights reserved.

ThousandEyes and Splunk

Integrate ThousandEyes with Splunk Platform and Splunk Observability



© 2025 Cisco and/or its affiliates. All rights reserved.

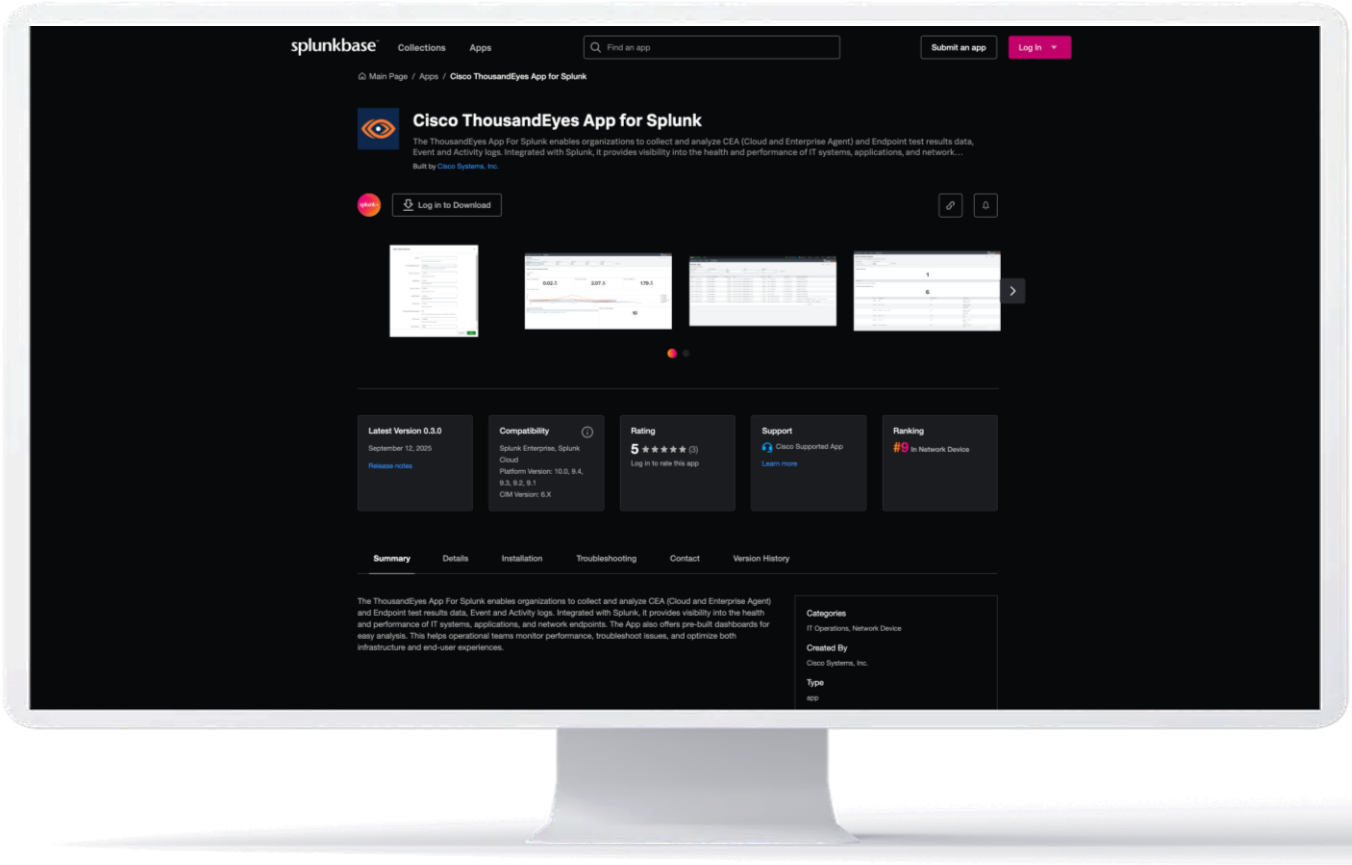
cisco

Splunk Integration Demo

How does the integration work?

ThousandEyes App for Splunk Integration – Splunk Platform

- Leverage the ThousandEyes App in Splunkbase
- Download the App (login required)
- Log in to Splunk Platform
- Click Apps -> Manage Apps
- Install app from file
- Select ThousandEyes App file downloaded and upload
- Follow the prompts...

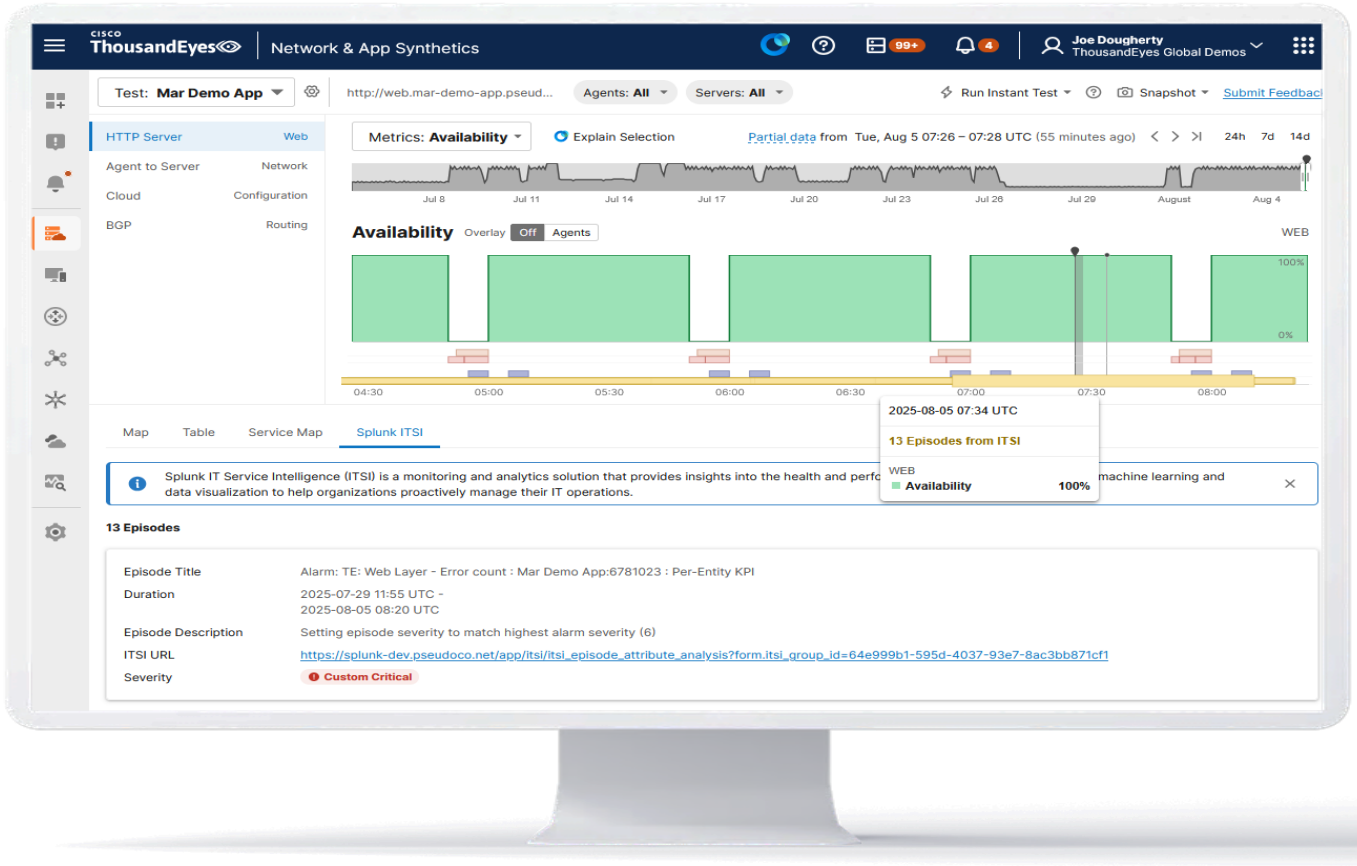


© 2025 Cisco and/or its affiliates. All rights reserved.

How does the integration work?

Splunk ITSI Episode Information – Splunk ITSI

- Assuming Splunk Platform and ITSI (>= v4.17.x) is already installed and operational
- Prerequisite to have ThousandEyes App for Splunk (>= v0.1.0) installed and configured
  - Take note of the index name used
- Prerequisite to have Splunk App for Content Packs (>= v2.3.0) installed
  - Content Pack for ITSI Monitoring and Alerting (>= v2.3.0)
  - Content Pack for Cisco ThousandEyes (>= 1.0.0)
    - Match the same index name used in the ThousandEyes App for Splunk
- Configure Webhook Integration
- Enable ThousandEyes inbound alert notifications in Splunk ITSI
- Configure Alert Rule for Aggregation Policies
- Hooray! You're done. Enjoy your Splunk ITSI Episodes in ThousandEyes Views



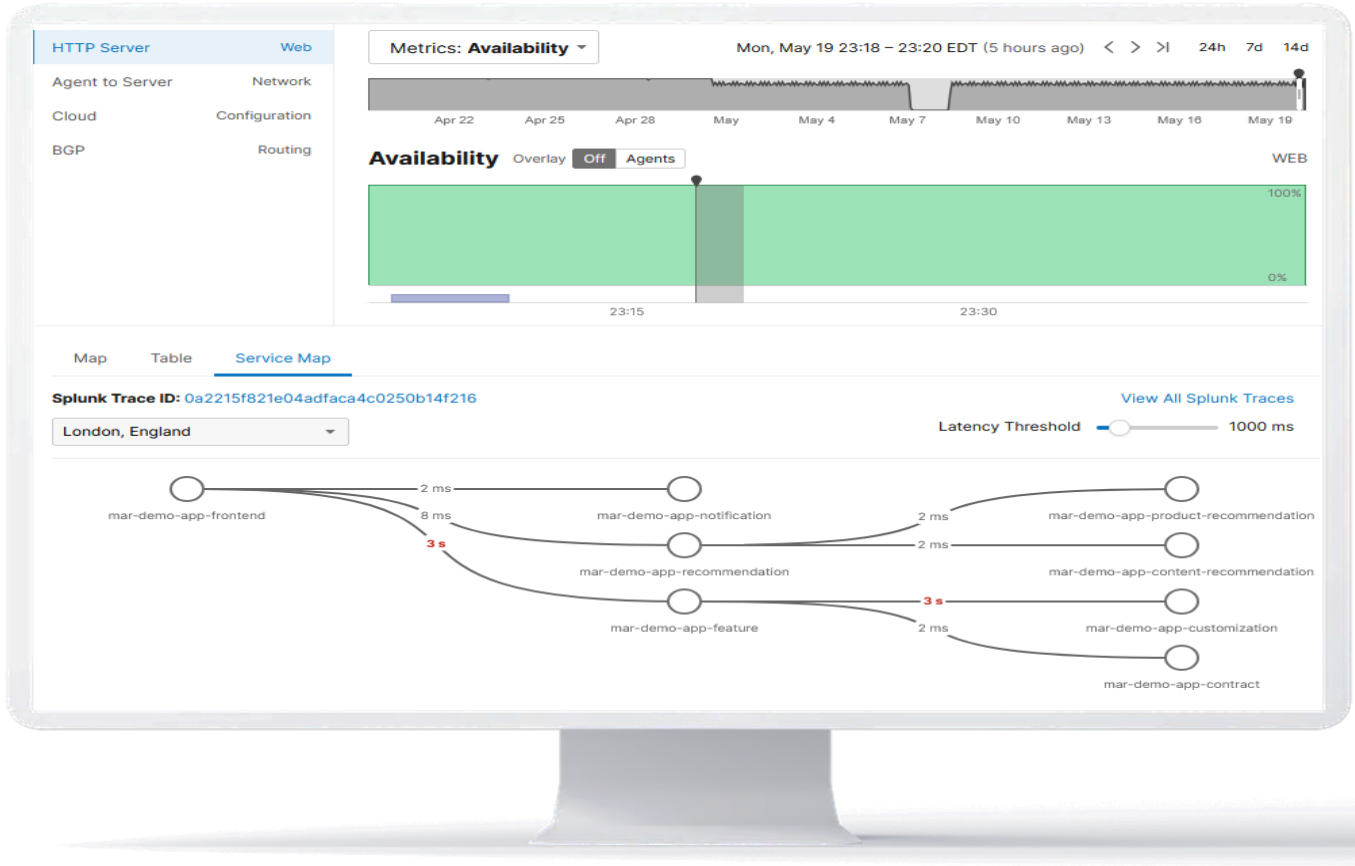
© 2025 Cisco and/or its affiliates. All rights reserved.

How does the integration work?

Service Map and Telemetry Streaming – Splunk Observability Cloud

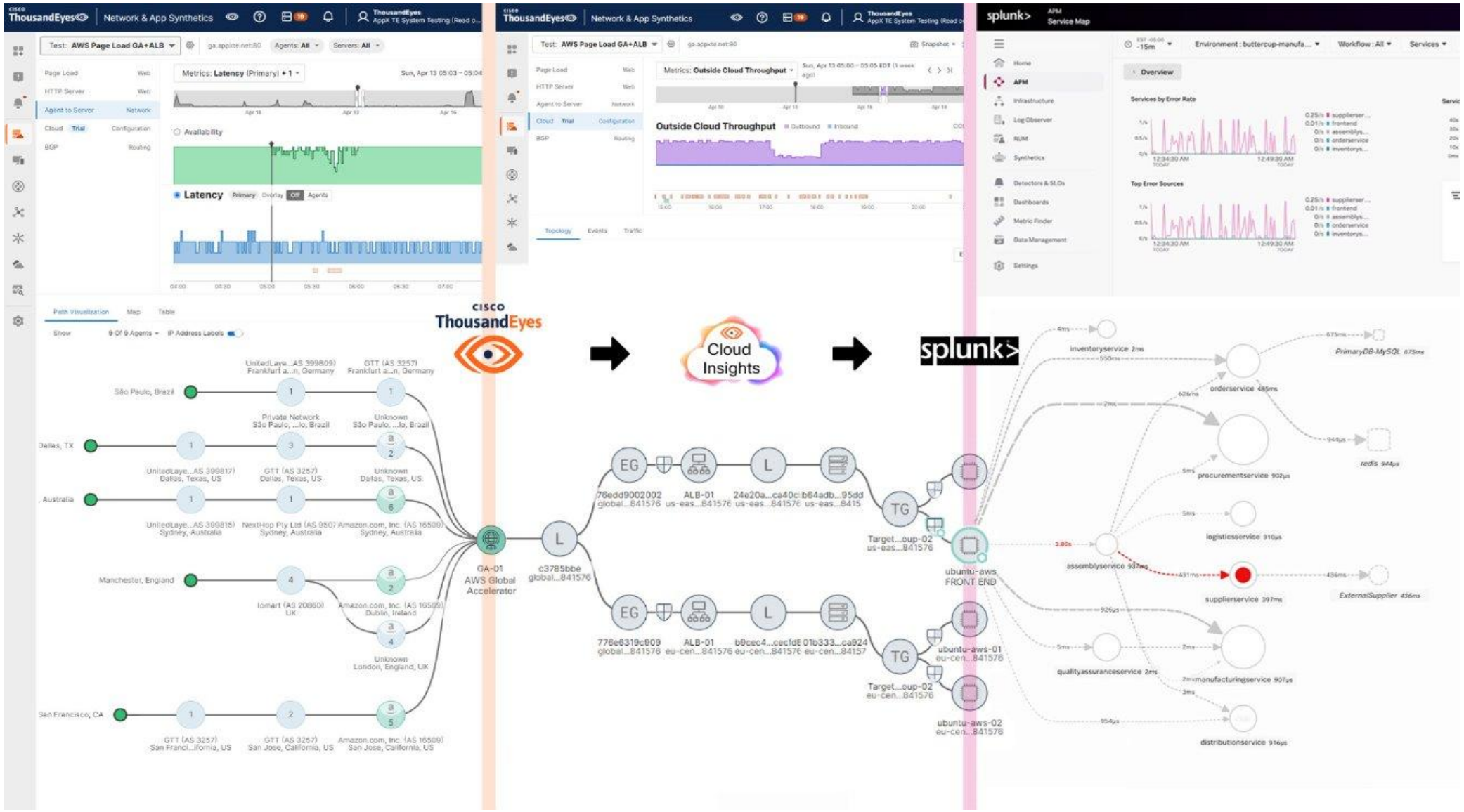
- Application MUST be instrumented with OpenTelemetry
- Use the built-in Integration workflows in ThousandEyes
  - Create a Connector
  - Create an Operation
- Set up an HTTP or API test in ThousandEyes with Distributed Tracing enabled

  - ThousandEyes will inject the OpenTelemetry traceparent headers into the requests



© 2025 Cisco and/or its affiliates. All rights reserved.

True End-to-End Assurance (no, really)



© 2025 Cisco and/or its affiliates. All rights reserved.

ThousandEyes Demo Stands

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

Assurance and Observability | Cisco ThousandEyes and Splunk Observability [DEMDR-11]

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

Assure Cloud and SaaS | Cisco ThousandEyes [DEMDR-12]

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

Assurance with Cisco | Networking, Cisco ThousandEyes, Cisco AI Assistant [DEMCPA-08]

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

Assure Enterprise Networks | Cisco ThousandEyes [DEMDR-13]

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

Multi-Layer Assurance | Cisco ThousandEyes [DEMFPW-32]

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

Services for observability: Cisco ThousandEyes | Splunk AppDynamics [DEMDR-09]

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

Unify Observability and Networking | Splunk Observability and Cisco Networking [DEMDR-05]

EXPLORER FULL CONFERENCE IT LEADERSHIP FULL CONFERENCE PLUS

AI-Powered Network Assurance | Cisco AI Assistant [DEMDR-10]

© 2025 Cisco and/or its affiliates. All rights reserved.

Complete your session evaluations

Complete a minimum of 4 session surveys and the Overall Event Survey to claim a Cisco Live T-Shirt.

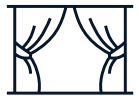
Earn up to 800 points by completing all surveys and climb the Cisco Live Challenge leaderboard.

Level up and earn exclusive prizes!

Complete your surveys in the Cisco Live Events app.

© 2025 Cisco and/or its affiliates. All rights reserved.

Continue your education



Visit the Cisco Stand for related demos

Book your one-on-one Meet the Expert meeting

Attend the interactive education with Capture the Flag, and Walk-in Labs

Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

© 2025 Cisco and/or its affiliates. All rights reserved.

Thank you

CISCO