cisco
You make possible

It's not a network problem, I can prove it with Cisco DNA Assurance

Boaz Elgar Cisco EMEAR ENTERPRISE Networks Marketing Lead

Hans Vasters Senior Network Architect

PSOCRS-1102

cisco Live!

Barcelona | January 27-31, 2020

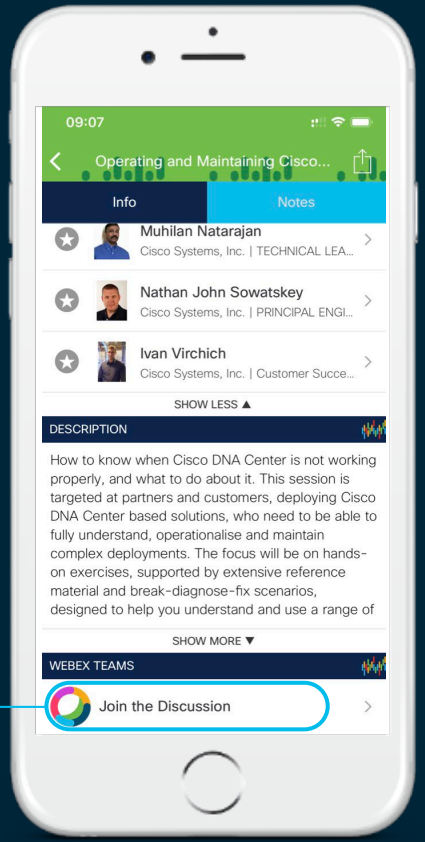
Cisco Webex Teams

Questions?

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

How

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



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Agenda

- Setting the Stage. What is Assurance?
- Introducing Rewe
- What did Rewe want to solve?
- Examples of what Rewe like about the solution?
- Tips for those planning to deploy Cisco DNA Assurance

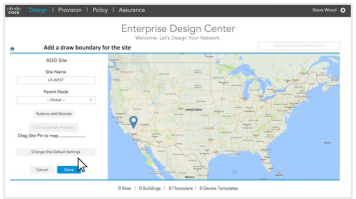
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Cisco DNA Assurance

Cisco DNA Assurance is part of Cisco DNA Center

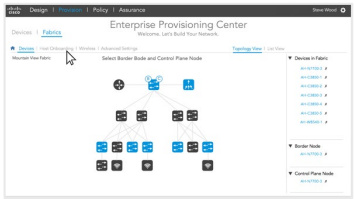
Automation

Design



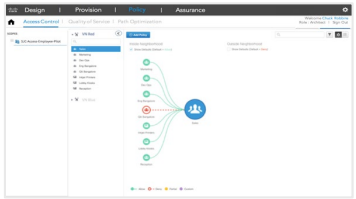
- Global settings
- Site profiles
- User access

Provision



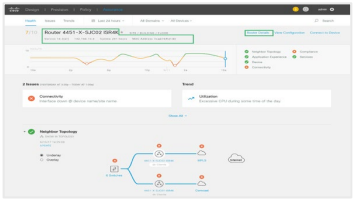
- Device inventory
- SWIM, PNP
- SDA Provisioning
- Device on-boarding

Policy



- Virtual networks
- ISE, AAA, Radius
- Access control
- Application control

Assurance



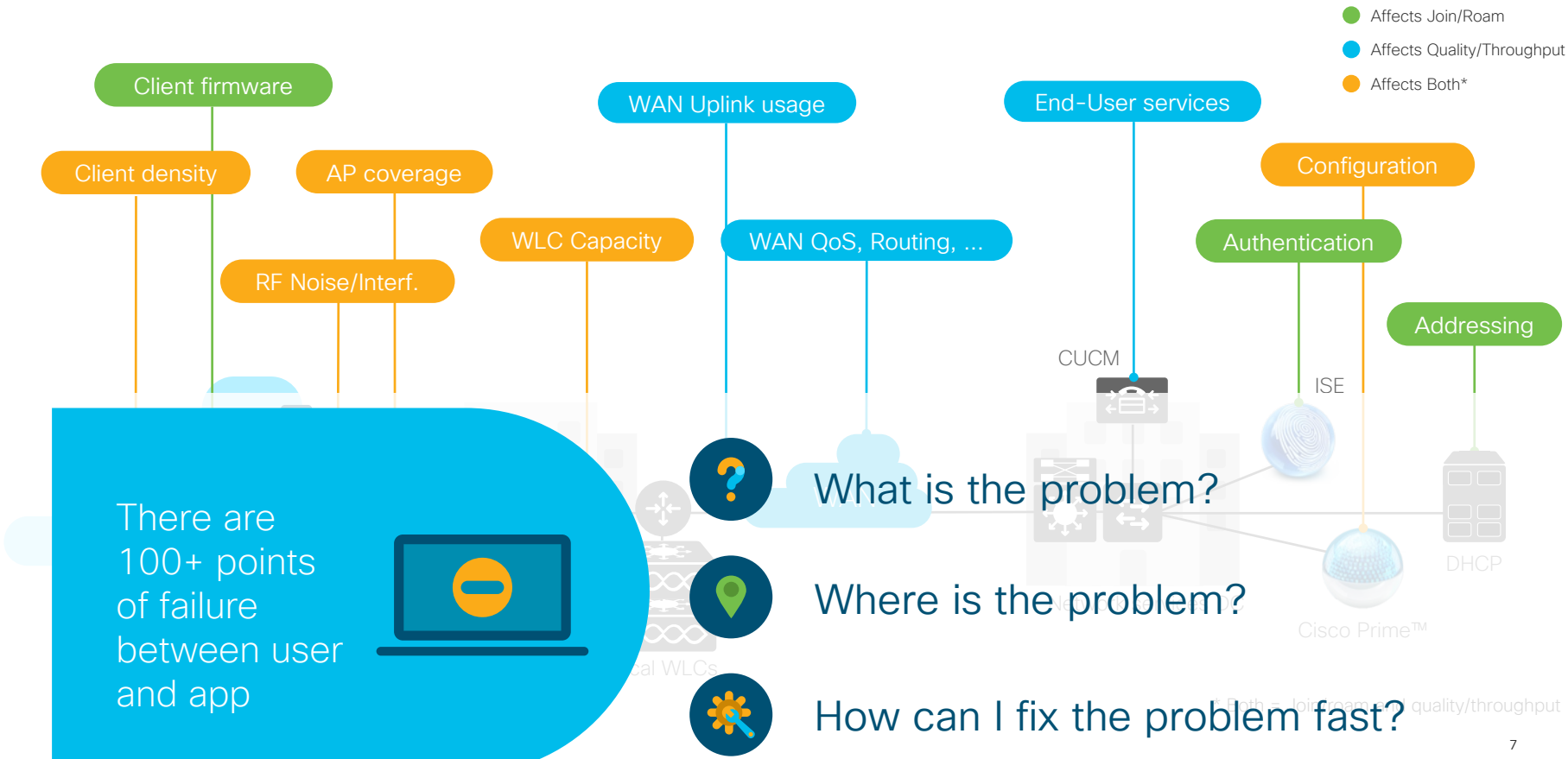
- Issues and trends
- Performance
- Proactive troubleshooting

Planning, installation and migration

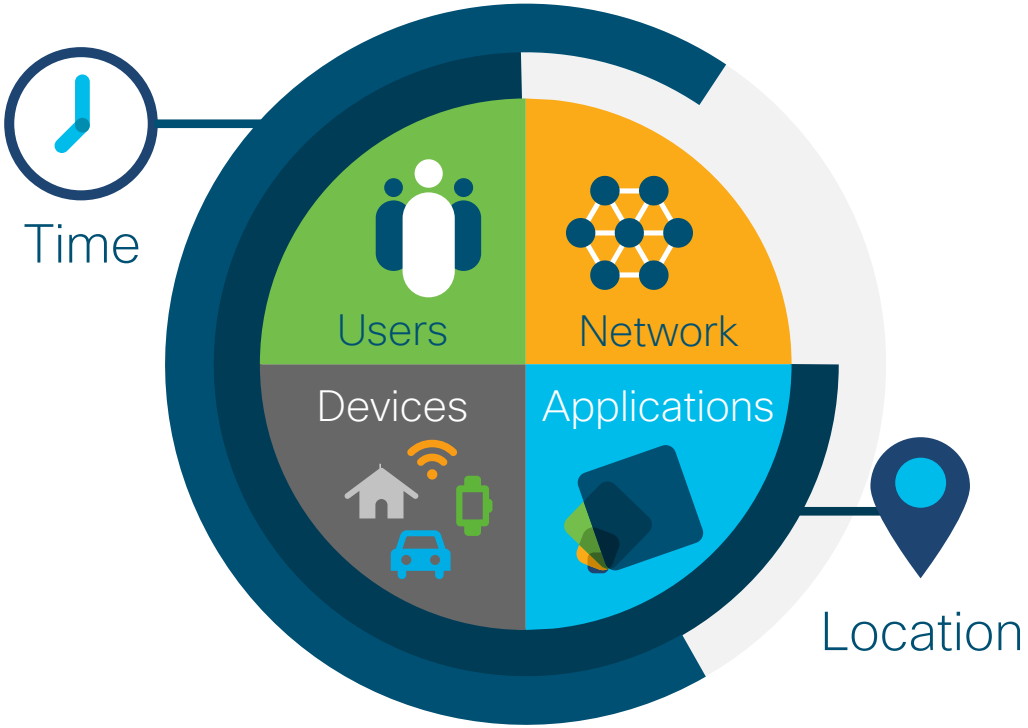
Proactive and predictive network, client and application assurance

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Network Quality is a Complex, End-to-End Problem



In this Environment, Context is Key



Cisco Context

360-degree Visibility

+

Data Granularity

+

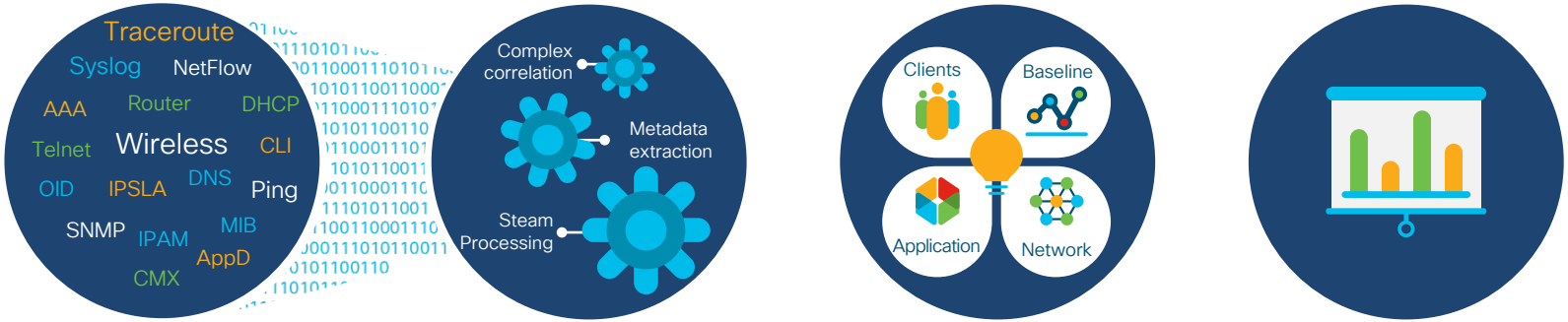
Historical, Real-time, Future

Rich Context Increase Business Productivity and Frees Up IT Time

Cisco DNA Assurance

From network data to business insights

Network telemetry contextual data | Complex event processing | Correlated insights | Suggested remediation



Everything as a sensor

Over 150 actionable insights

Clients | Applications | Wireless | Switching | Routing

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Introducing REWE International AG

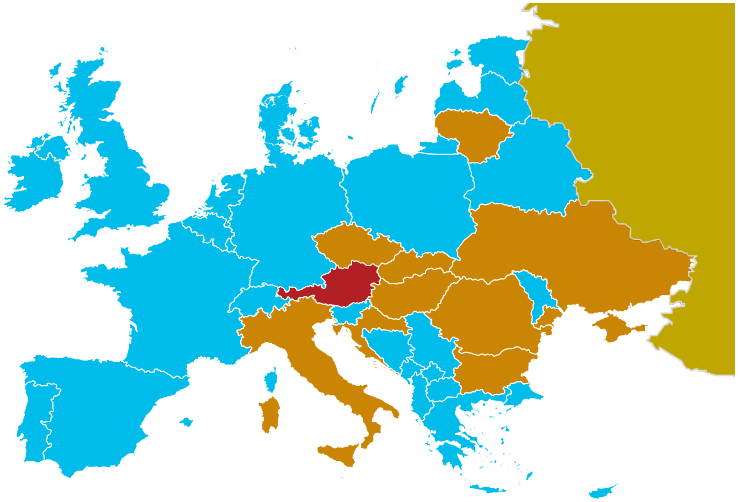
REWE International AG

- *Hans Vasters*
- Senior Network Architect
- Responsible for design, implementation and operation
- Core networking, Security and WiFi
- 15 years

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

REWE International AG

- Present in 11 countries
- Headquarter in Austria/Wiener Neudorf
- ~ 4,500 stores (grocery stores, drugstores)
- ~ 60 warehouses/production facilities
- ~ 92,000 employees
- Revenue in 2018 ~ 17 Billlion €
- Austria: ~ 2,600 stores with 1.9 Million customers each day



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Rewe Brands

BILLA

MERKUR

PENNY MARKT

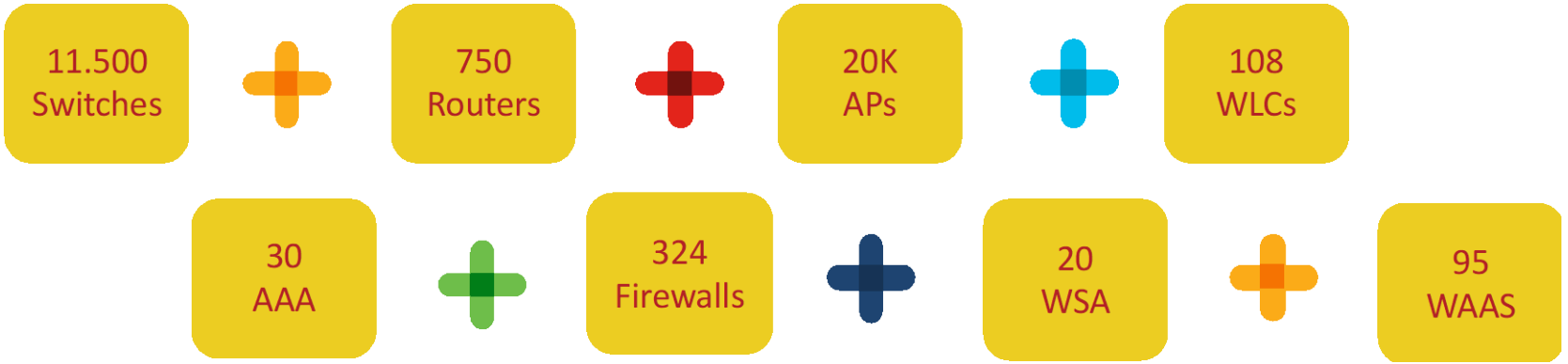
BIPA

#ADEG

AGM

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

REWE International AG Network

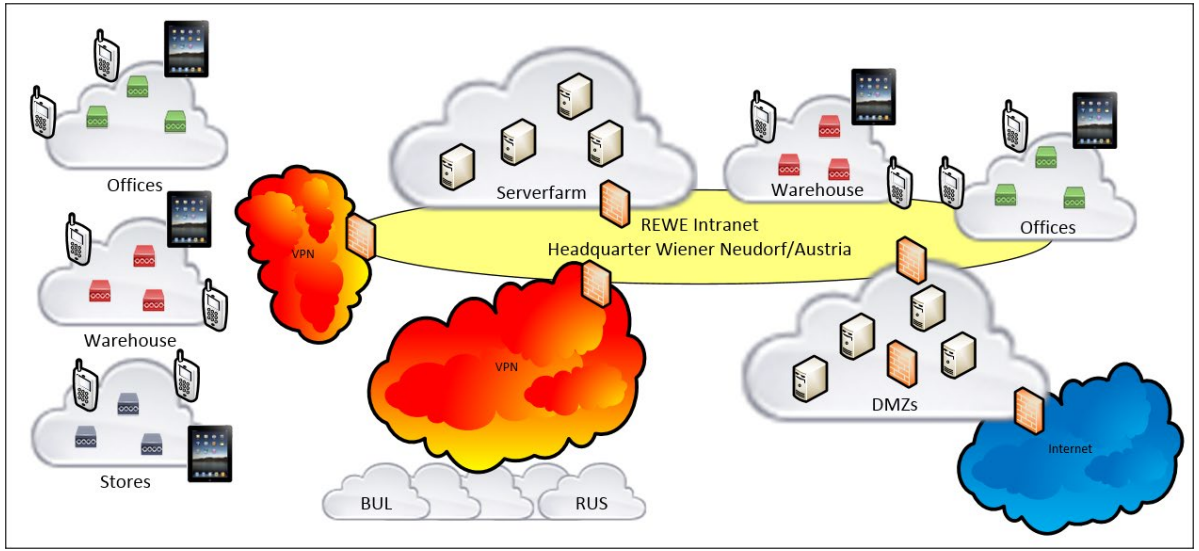


© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

REWE International AG Network

Network:

- Austria is the Hub
- Every country is a „copy“ of Austria
- VPNs (leased lines, Internet based VPN, xDSL, etc.) to remote locations/each country
- Secured by FWs/IDS/IPS



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

REWE International AG Applications and services

Examples of Applications and Services

- Enterprise Resource Planning (ERP)
- Stock management software
- SAP and BO
- Web Services/Web Hosting
- etc.

Services/Applications are very critical

- Examples:
  - Ordering and inventory in stores
  - Goods in and out in warehouses
  - Finance/tax authority
  - Payment Services
  - Free WiFi Services for customers
  - etc.

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

What did you want to solve with Cisco DNA Assurance?

Things we wanted to solve with Cisco DNA Assurance

- Overall better user experience
  - Be proactive, fixing problems without the user ever seeing it
- Faster problem solving
  - Check different places to find the problem (Network Management, AAA, Logging, etc.)
- Free up resources in our team
  - Over the last decade the total number of tasks (design/implementation/operation) „exploded“, did not increase linearly but exponentially
  - Possible solution: more manpower
  - BUT: Get the approval for more headcounts, find the right skilled people on the job market, etc.

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

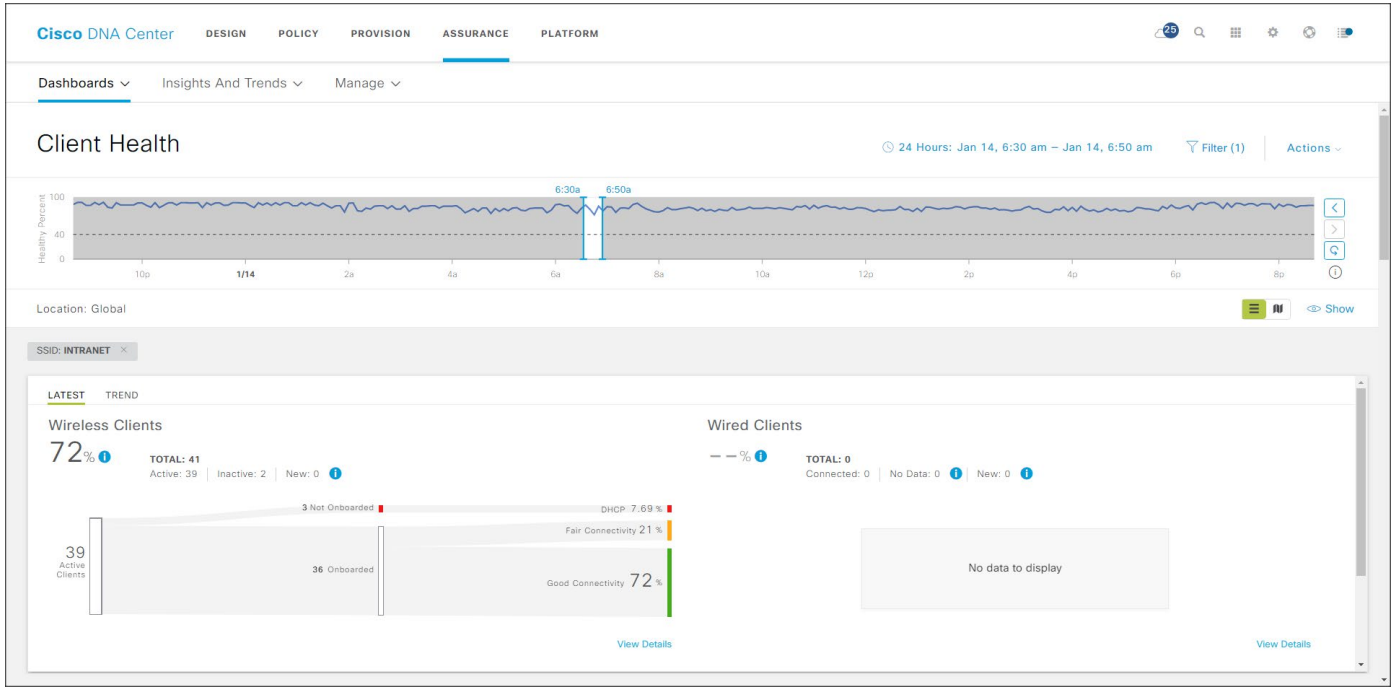
Examples of what you like about the solution

Features that we like in Cisco DNA Assurance

- Health Score
- Time Traveling
- „Drill down to the root cause of a problem“
- Information about Client Roaming and Onboarding Times
- The 360° view of clients and access points
- Wireless Sensors

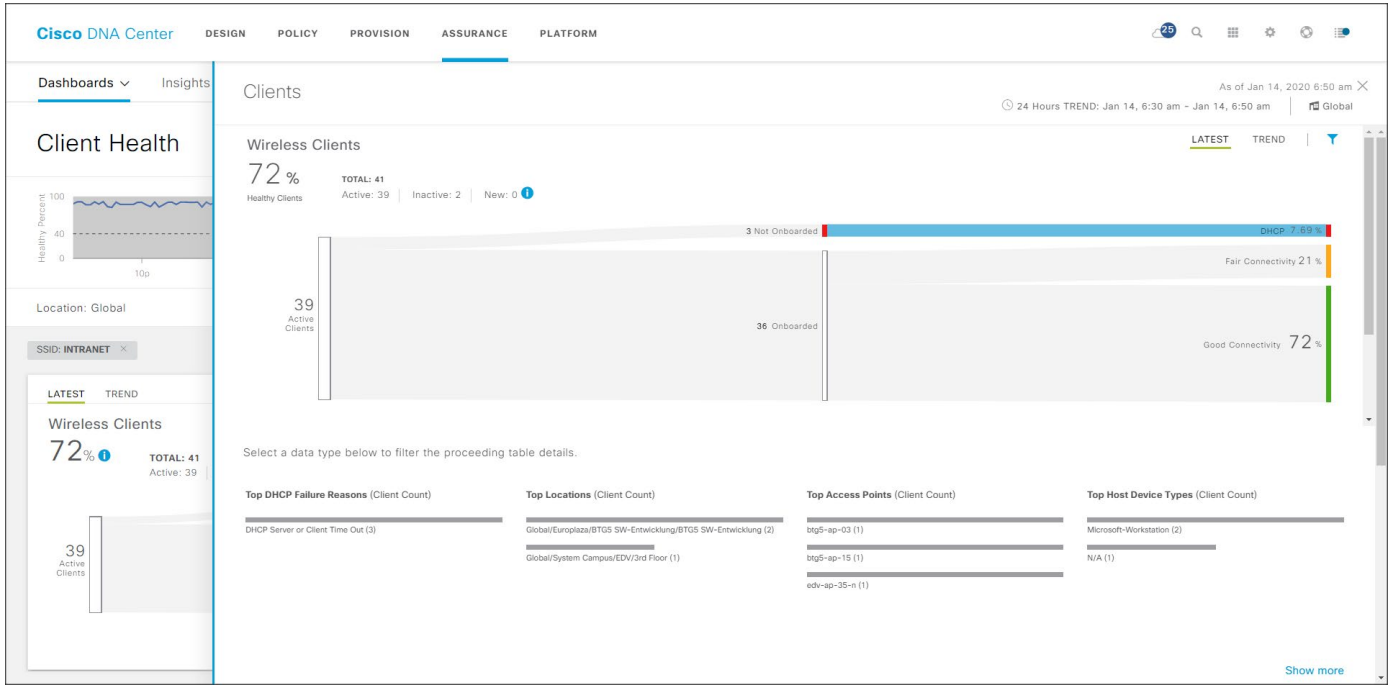
PSOCRS-1102 © 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Health Score and Time Traveling



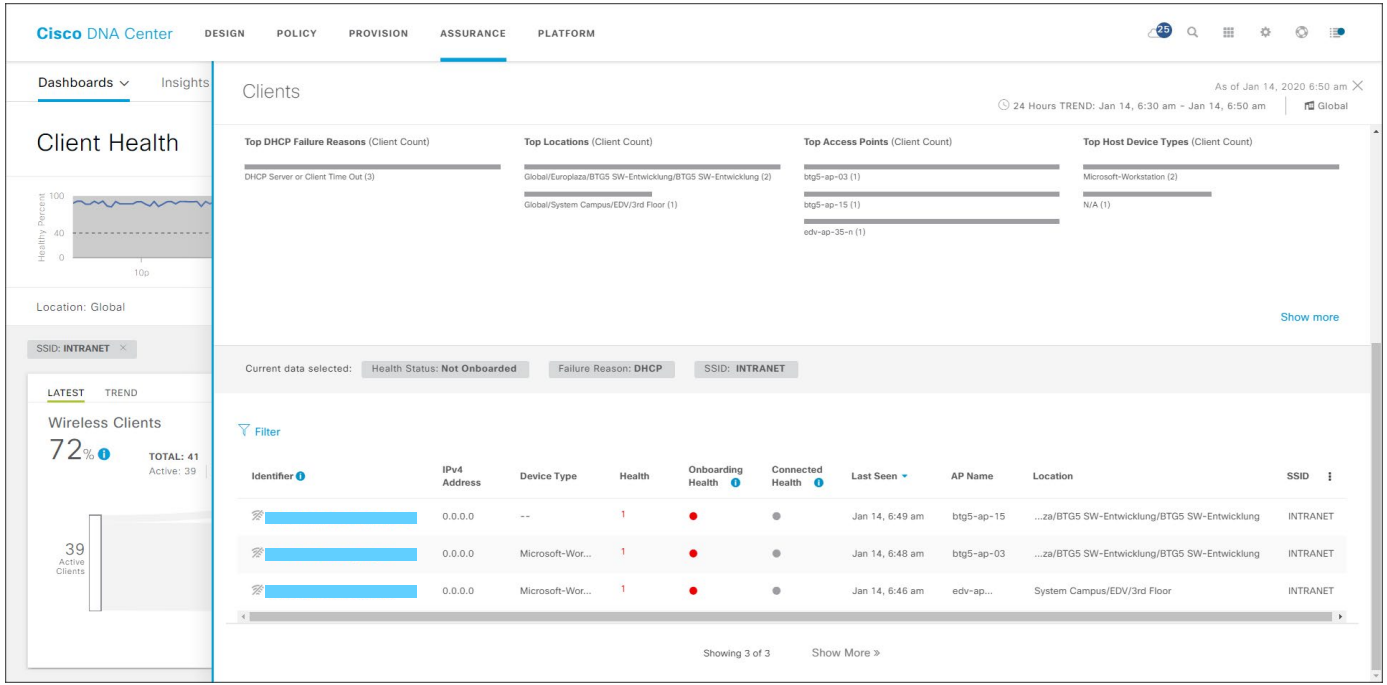
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Health Score and Time Traveling



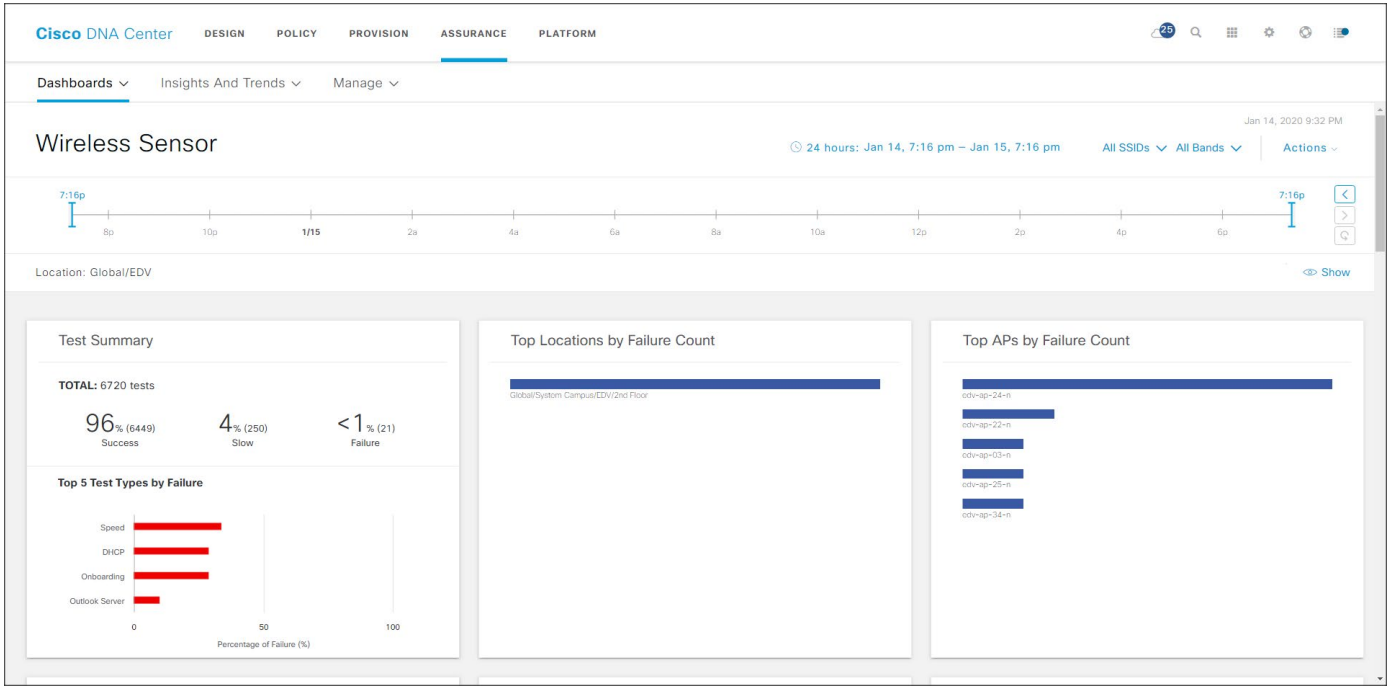
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Health Score and Time Traveling



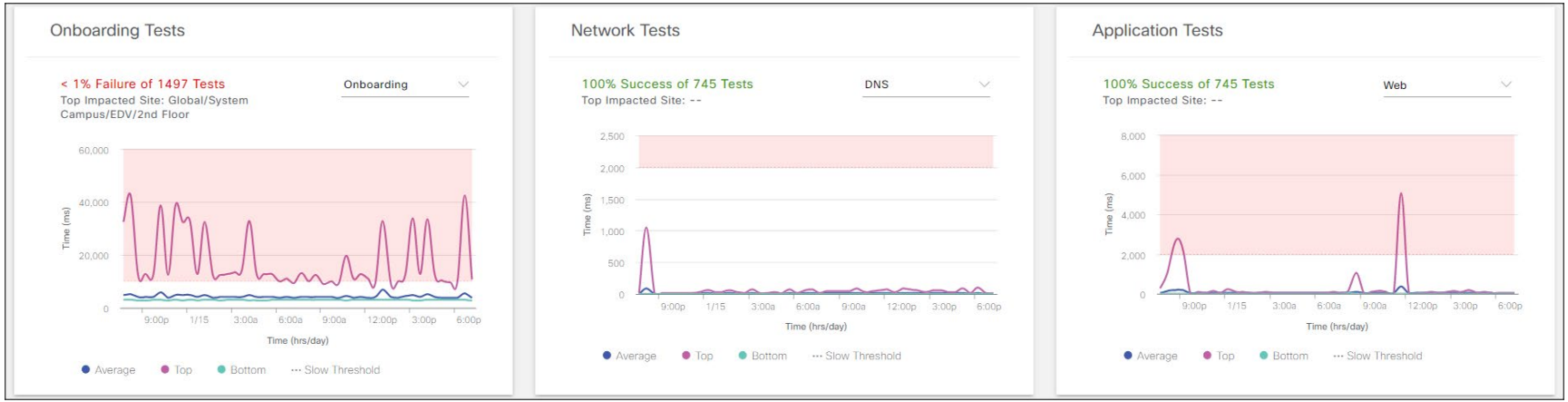
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Wireless Sensors



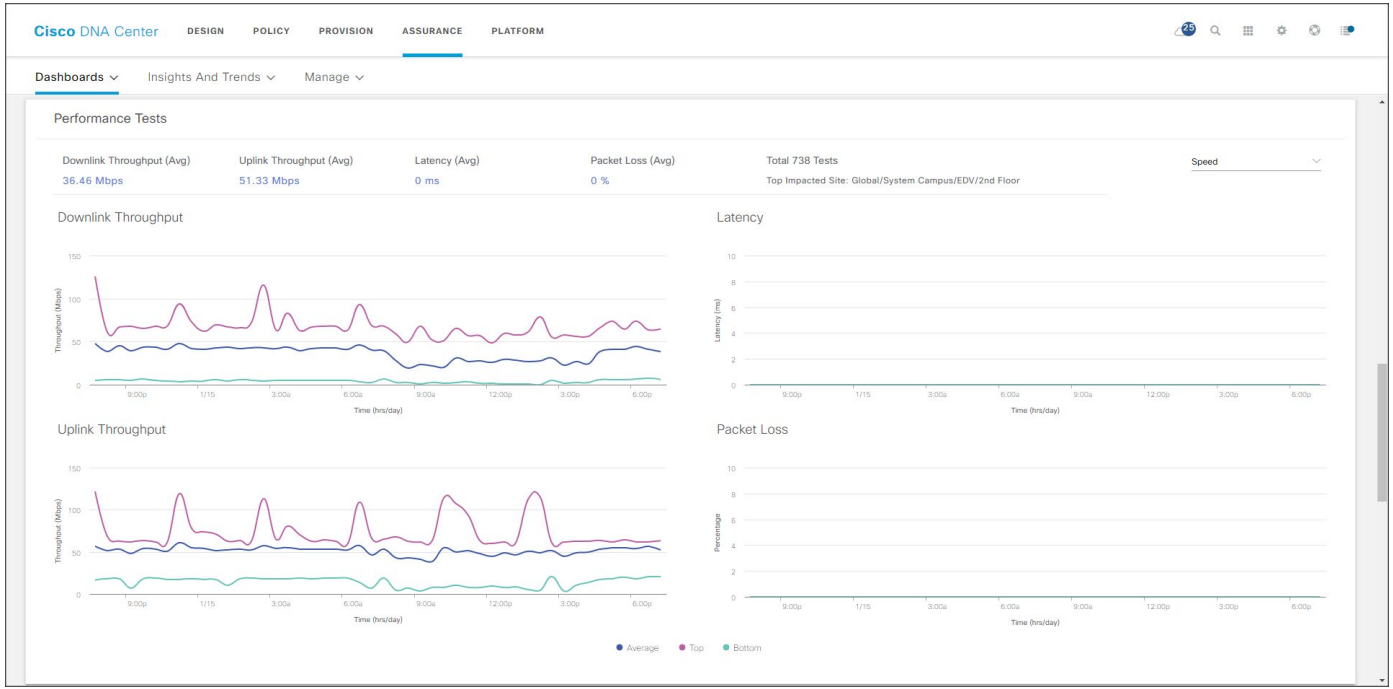
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Wireless Sensors



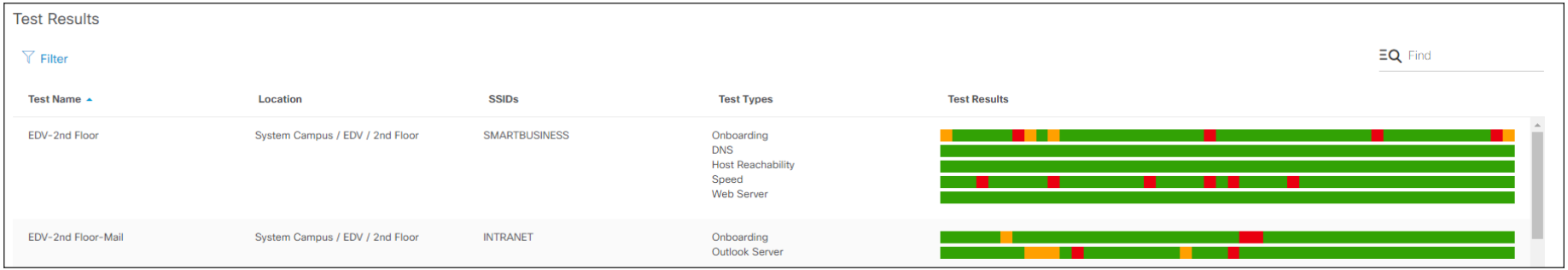
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Wireless Sensors



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Wireless Sensors



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

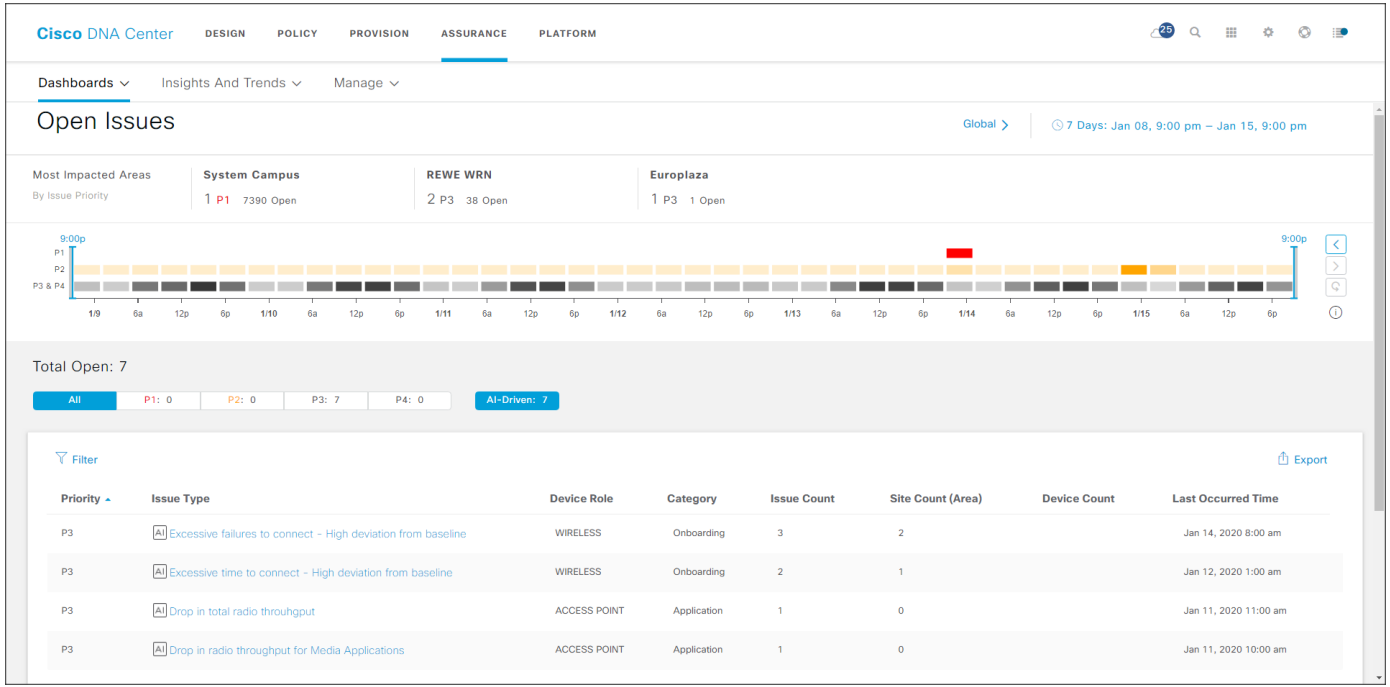
Cisco DNA Center AI Network Analytics

- Issues
  - AI-Driven
  - Onboarding

- Insights
  - Site Comparsion KPIs
  - Network Heatmap KPIs

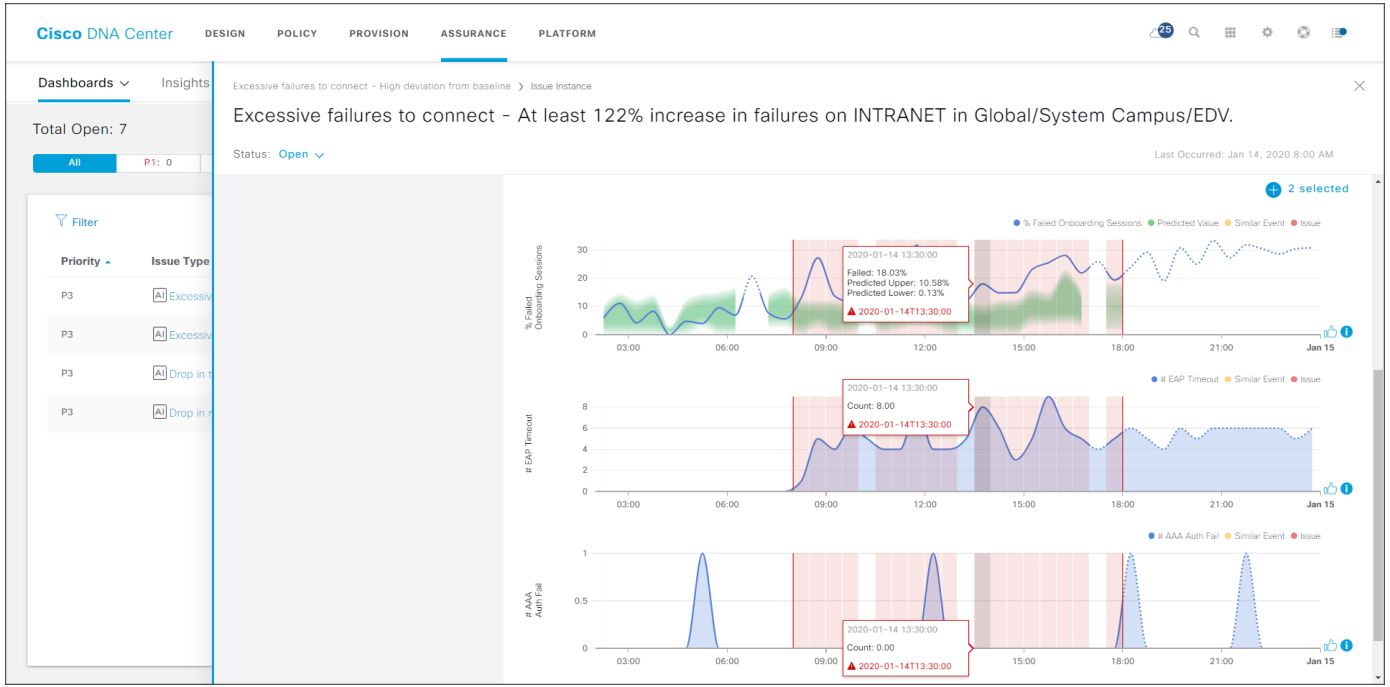
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Issues AI-Driven



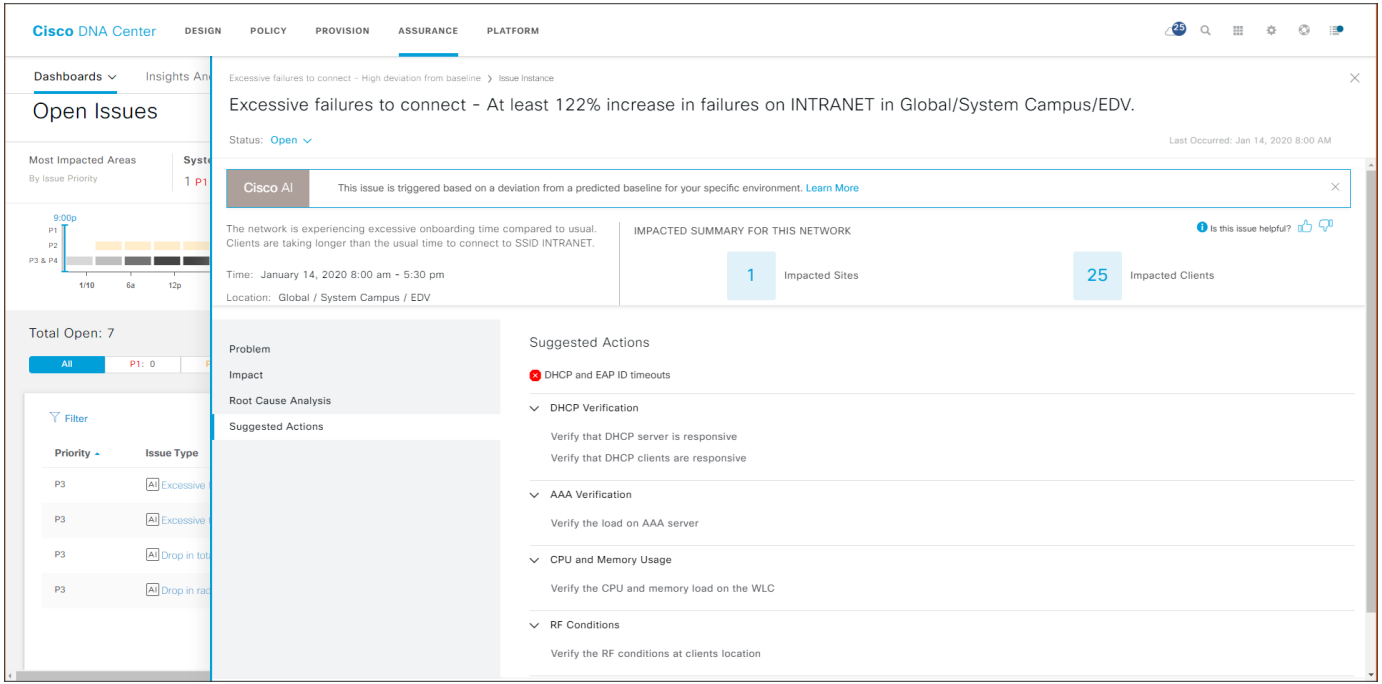
© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Issues AI-Driven



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

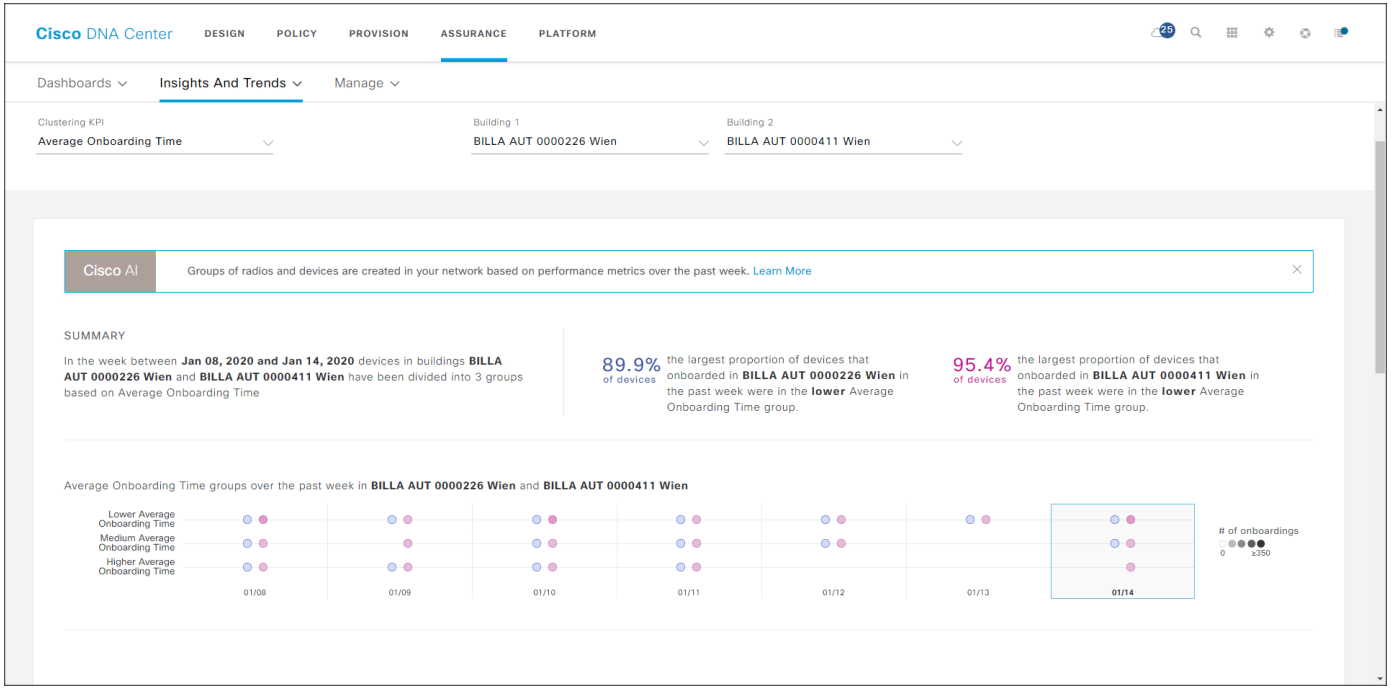
Issues AI-Driven



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Issues AI-Driven

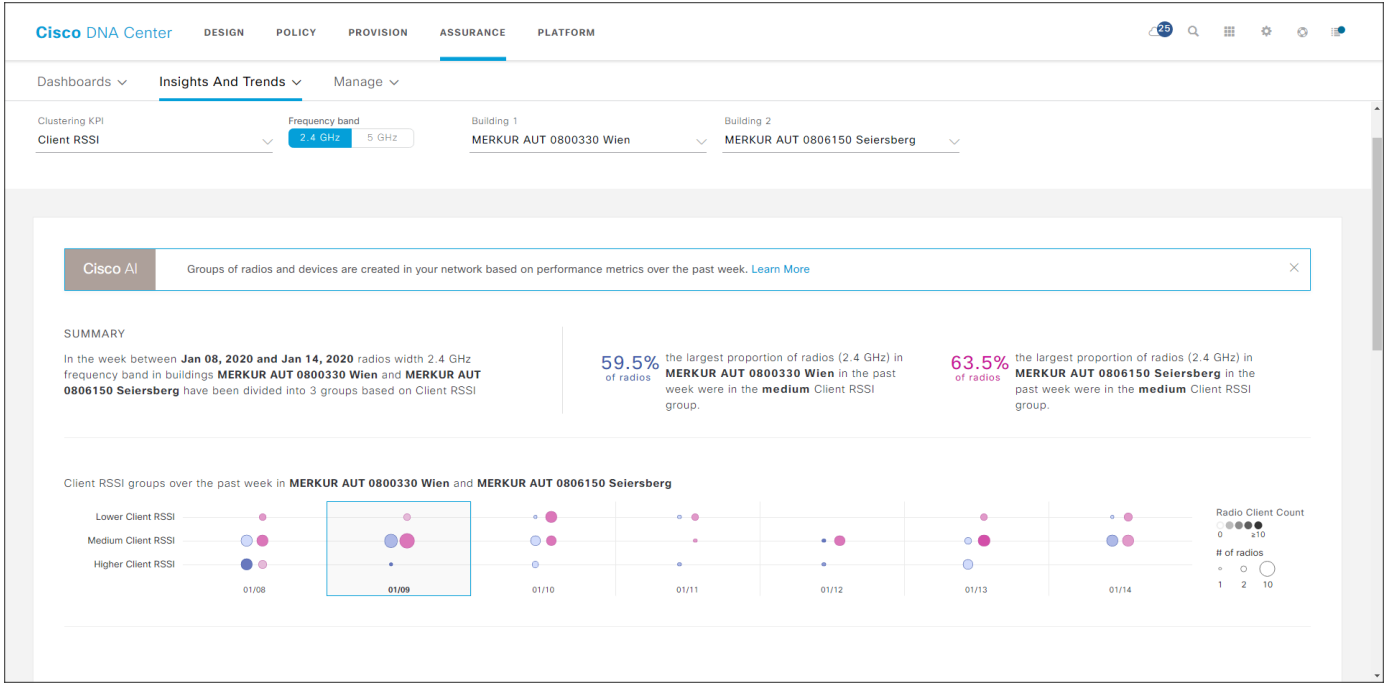
Site Comparsion: Average Onboarding Time



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

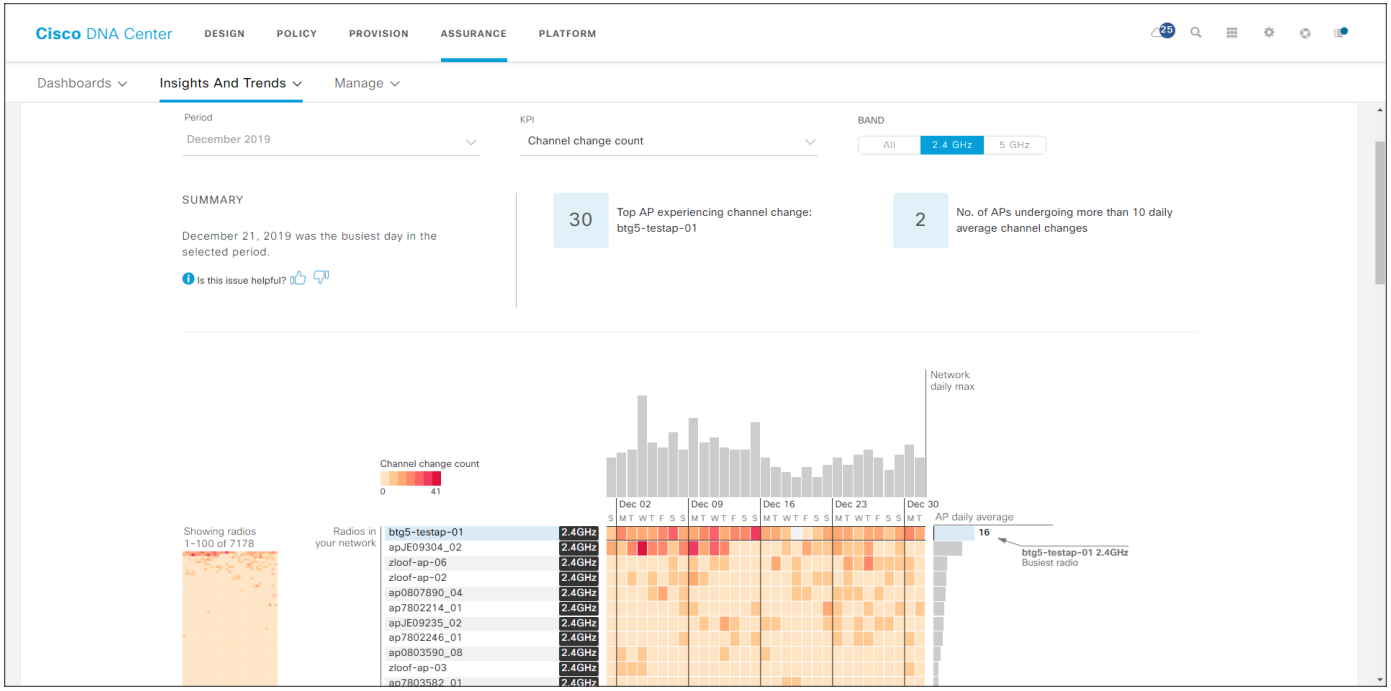
Issues AI-Driven

Site Comparsion: Client RSSI



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Network Heatmap: Channel change count



© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Cisco DNA Center Next Steps

- Intelligent Capture
- Leverage Cisco DNA Center Platform for integration with existing tools

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Video

Complete your online session survey

- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (starting on Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Content Catalog on ciscolive.com/emea.

Cisco Live sessions will be available for viewing on demand after the event at ciscolive.com.

cisco Live!

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Continue your education

Demos in the Cisco Showcase

Walk-In Labs

Meet the Engineer 1:1 meetings

Related sessions

 © 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

Thank you

cisco Live!

You make **possible**