



NEWS RELEASE

New Predictive Analytics, Assurance Capabilities Advance Cisco's Strategy to Reinvent the Network for Digital Business

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- Mathematical modeling and contextual insights represent the next major advancement in intent-based networking revolution
- Waves of software innovation fuel evolution of networking portfolio toward subscription-led model
- Cisco delivers an industry leading end-to-end intent-based networking portfolio, which spans the data center, campus, branch and edge

BARCELONA, Spain, Jan. 30, 2018 (GLOBE NEWSWIRE) -- Cisco today announced powerful assurance innovations across its intent-based networking portfolio that will help IT teams shift from reactive to proactive. It will address the 43 percent of time IT spends troubleshooting, while making IT operations more proactive, agile and automated. The software innovations represent significant advancements in mathematical modeling and contextual insights, accelerating Cisco's strategy to reinvent the network for the digital era.

Over the past few years, the explosion of devices, adoption of cloud, and exponential growth of security threats have challenged current approaches for building and managing networks. Cisco's vision is to create a network that anticipates operational issues, stops security threats in their tracks, and continues to learn, adapt and protect. To realize this, Cisco is driving the intent-based networking revolution by transforming the entire network, from the data center and campus, to the branch and edge.

Today, Cisco is introducing its second wave of intent-based networking innovation, with powerful assurance products spanning the networking portfolio.

- In the data center, the **Cisco Network Assurance Engine** uses continuous verification of the entire network to help keep business running as intended, even as the network changes dynamically.

- In campus and branch networks, **Cisco DNA Center Assurance** is delivering a new level of insight and visibility to dramatically reduce the time and money IT spends troubleshooting across wired and wireless environments.
- And, for customers with distributed IT operations, the new **Cisco Meraki Wireless Health** reduces mean time to remediate wireless issues with rich analytics and insights.

“The network has never been more critical to business success,” said David Goeckeler, executive vice president, Networking and Security Business at Cisco. “We’re reinventing the network ground up to deliver a secure and intelligent platform for digital business. Today, we are taking another major step toward that ambitious goal with intent-based networking innovations designed to deliver contextual insights and assurance that will help transform IT from reactive to proactive.”

Cisco’s intent-based networking portfolio represents a fundamental shift away from the manual and time-intensive methods by which networks are traditionally managed. These intent-based networks capture and translate business intent into network policies, and activate them across the infrastructure. With the introduction of assurance capabilities, they can now continuously verify the network is operating as intended.

Customers globally are embracing intent-based networking. Nearly 200 customers are in early field trails with the new assurance technologies, including Robert Bosch GmbH, REWE Group, Houston Methodist Hospital and Scotiabank. More than 1,100 customers are deploying the recently announced Catalyst 9000 Series switches, with 150 running DNA Center pilots. In the data center, Cisco has more than 14,500 Nexus 9000 customers, with a 45 percent ACI attach rate.

Innovation Spanning Data Center and Enterprise Networking

Today, Cisco is introducing three powerful new assurance products that further demonstrate how intent-based networking systems move at the speed of digital business.

In the **data center network**, Cisco is enabling always-on assurance through the **Cisco Network Assurance Engine**. By combining mathematically accurate models of the network with more than 30 years of codified domain knowledge, Cisco provides IT teams the ability to instantly pinpoint why and when the network is not acting as intended, then offer suggestions on how to address the issue. This comprehensive view into their network helps enable IT teams to:

- **Predict the Impact of Changes:** Make changes to the network faster and with more confidence, catching human configuration errors before they cause problems.
- **Continuously Verify Network Behavior:** Proactively eliminate network outages and vulnerabilities by continuously analyzing the state of the entire network.
- **Assure Security Policy and Compliance:** Reduce risk by assuring that security policies are being applied consistently across the network, and ensure policies are compliant with business requirements—every minute of every day.

With ACI and Tetration, Cisco provides the ability to translate application intent and activate those policies across the network. Now, with the Network Assurance Engine, Cisco is delivering the final element of intent-based networking – the assurance of intent.

In the **campus and branch**, Cisco is enabling ‘everything as a sensor’ and aggregating intelligence from the network, application, client and things to help provide IT with full context. These capabilities will dramatically reduce the 43 percent of time that IT spends troubleshooting and improve the experience for employees and customers.

Cisco DNA Center Assurance provides a 360-degree contextual view that connects all the relationships of who, what, where, when, how. Spanning wired and wireless environments, it delivers a

complete picture of what is happening between users and applications with real-time, historical and predictive capabilities. DNA Center Assurance helps IT teams address three major issues:

- **Problem Isolation:** Get to the root cause in minutes—not days or weeks—by isolating where exactly the issue happened.
- **Problem Replication:** Go back in time to when an issue occurred. IT can view a complete 360 snapshot of the status of the network, user, device and application at the exact moment the issue arose.
- **Problem Resolution:** Proactively fix the issue through guided remediation.

With **Cisco Meraki Wireless Health**, IT also gains visibility and rich analytics to troubleshoot wireless issues faster and deliver a better user experience. Cisco Meraki uses a cloud-managed IT model to automate operations, simplifying the complexity of IT. Now, Meraki Wireless Health allows IT teams to quickly identify wireless anomalies, find poorly performing access point and clients, and provide actionable insights to improve the wireless experience.

Powered by network analytics and rich contextual data, **Cisco Services** offers new services to help customers streamline the deployment of the new assurance solutions. From advisory and implementation, through optimization and managed services, Cisco and its partners are helping customers accelerate their journey to truly intent-based networks.

Customer Quotes

Robert Bosch GmbH, Jan Holzmann, Team Lead for Data Center Network Operations

“We are constantly bringing on new applications and expanding our data center capacity as we expand our business. The Cisco Network Assurance Engine helps enable a new level of quality for our application migrations. With a detailed understanding of the policy model and proactive verification of all changes, Cisco Network Assurance Engine can help us greatly reduce the risk of production outages and accelerate our timelines.”

Houston Methodist Hospital, Manuel Ortiz III, Senior Wireless Engineer

“DNA Center helps me find problems proactively, before users contact me. With a mostly wireless network, I’m able to find devices throughout the network and quickly solve any problems with the help of analytics.”

Axians Nordic, Erik Sohlman, Senior Manager and CTO

“As a Cloud Service Provider, our business depends on network availability and delivering on customer SLAs. We are always looking for modern technologies to manage our multiple data centers and remain an industry leader. Cisco Network Assurance Engine’s approach of ‘always on assurance’ for our network and services will make our operating model more proactive and help enable us to remain as the best-in-class service provider to our customers.”

REWE Group, Hans Vasters, Senior Network Architect

“Cisco DNA Center allows the networking team to focus on our core projects and give more responsibility to the first line support team. It lets our team be proactive when it comes to resolving issues, before it becomes a problem to our users.”

Scotiabank, Nicholas Yurkovich Chief Network Engineer

“The more intuitive that I can make troubleshooting, the sooner I can take the network out of the equation. With Cisco DNA Center Assurance, the Scotiabank first line support teams can now take a proactive approach to resolving wireless issues and the engineering networking teams can work on growth and forward-looking opportunities.”

West Corporation, Tania Mazza, Director, Network Engineering

"At West, we run critical communications infrastructure for our customers, and as such, scale and speed are vital for our operations. Using the change verification process, we see Cisco Network Assurance Engine as a way to achieve higher levels of automation with increased certainty, allowing us to confidently move at a faster pace."

Availability

- The Cisco Network Assurance Engine is available now, initially for Cisco ACI customers, with a free, 30-day, no-commitment trial. Customers can purchase it via software subscription.
- Cisco DNA Center Assurance is available now. Customers can purchase it via the Cisco ONE subscription offer for networking.
- Cisco Meraki Wireless Health is expected to be available in early 2018. It will be included with the standard subscription for Meraki Wireless Access Points.

Additional Resources

- Executive Blog: [Intent-based networking takes a leap forward with assurance for the enterprise](#) (Scott Harrell)
- Executive Blog: [Assuring the full promise of Intent-Based Networking: Introducing the Cisco Network Assurance Engine](#) (Roland Acra)
- Executive Blog: [Meraki Wireless Health: Assuring a pristine wireless experience](#) (Todd Nightingale)
- Feature Story: [The future of networking: Intent](#)
- Facebook Live: [Jason Silva puts his senses to the test through a series of intuition-focused challenges](#)
- News Release: [Cisco unveils network of the future that can learn, adapt and evolve](#) (June 2017)
- Read about: [Cisco Intent-based Networking](#)

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