



Cisco Connected Analytics for Network Deployment

Connected Analytics for Network Deployment (CAND) is analytics software as a service for Cisco® network devices. It brings new network intelligence to IT executives, engineers, and analysts who face demands to prepare the network for new strategic initiatives, while doing more with less:

- **IT-driven business strategies:** Network uptime is essential for customer initiatives around IoT, big data, mobility, cloud, video, and collaboration.
- **Complex, dynamic networks:** Networks are constantly evolving and changing, leading to lack of visibility into device deployment and configuration choices and their effects on the network's ability to support customer initiatives.
- **Limited resources:** 47 percent of CIOs surveyed cited lack of funding as the number-one challenge their organizations faced, even more than security.*

CAND enables customers to control network risk and disruptions proactively, instead of reacting to issues. Its analytics correlate support case data from Cisco Technical Assistance Center and customer-managed support cases together with Cisco network deployment data (configurations of hardware, software, and features), in order to:

- Visually cluster devices together by network role
- Show which device configurations are out of policy and most likely associated with disruptions to network and service availability
- Audit configuration changes in the network
- Model the effects of changes before committing to them
- Prioritize devices to be fixed based on their contribution to network risk

How CAND Works

CAND communicates network deployment posture through three indexes created by Cisco network experts:

- **Network disruption index:** Measures the severity of network disruptions (outages, degradation, and so on). Higher score/volatility indicates unwanted service outages and/or degradation. Viewable by type of insight (for example, hardware, software, and operations).

Benefits

- **More time for strategic IT projects, less on investigating issues:** CAND's visual analytics quickly reveal network anomalies and outliers to drill down on, down to device hardware, software, and feature utilization choices.
- **More resilient networks for complex initiatives such as video and big data:** CAND shows where to improve network configuration to increase service availability.
- **Fewer network and service disruptions:** CAND scores and prioritizes devices based on their potential to cause network disruption, focusing attention on the highest-effect devices instead of thousands.
- **More control of network change on KPIs:** CAND enables network engineers to simulate the effect of software configuration changes before committing time and resources.

*Network World, 2014 State of the Network Survey.

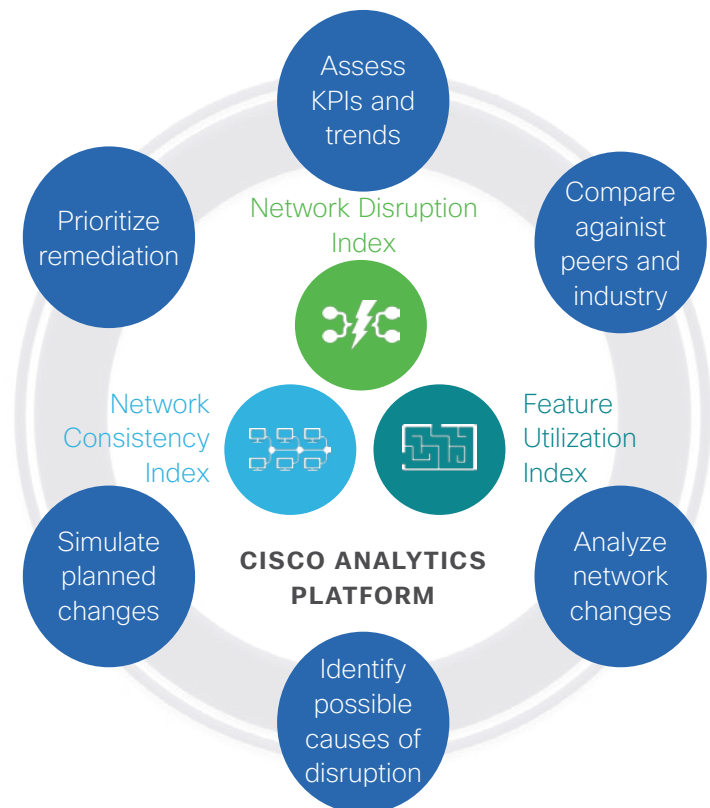
How is CAND Different?

- CAND was developed by Cisco network experts; its analytics use 25 years of network plan, design, manage, and operate intellectual capital from global leadership.
- CAND is built on Cisco's big data platform; it can analyze vast quantities of network data previously impossible with scripts and spreadsheets, and more quickly than with traditional BI systems.
- Unlike network configuration and change management systems or network management systems, CAND incorporates service request data into the analysis to focus configuration and change efforts on the devices most affecting service availability.
- CAND uniquely provides predictive analytics for network analysis. It enables engineers to model changes to software configurations, a common source of network disruption, before committing to them.

- **Network consistency index:** Shows how consistently devices supporting similar functions in the network are configured (alternatively, how closely devices in a network role conform to a policy master if one exists). Higher score indicates increasing drift from policy and similar devices in a role. Drill down on roles and families to find outliers.
- **Feature utilization index:** Measures network sophistication using weighted score of device technologies and features. A higher score indicates network is delivering increasingly complex business services and is sensitive to risk from the other indexes.

With CAND, customers can drill down into hardware, software, and features to promote a structured process for resolving network disruptions:

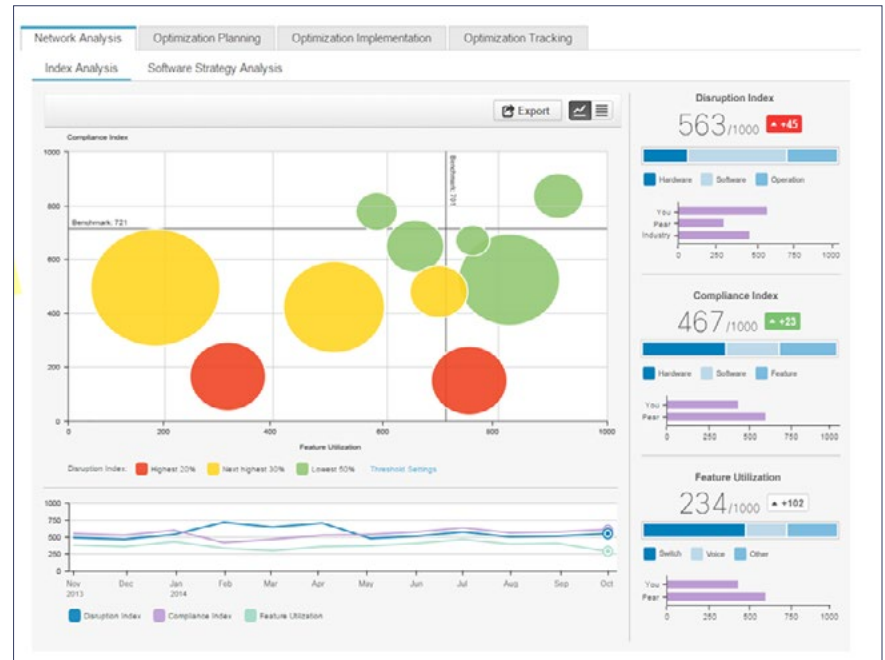
- Create baselines for network deployment and support case KPIs and trends
- Compare KPIs against peers and industry
- Analyze network changes over time
- Identify potential causes of disruptions
- Simulate the effects of software changes
- Prioritize remediation and network improvement planning



Get Started Today

CAND is a great way to gain proactive control of network risk and disruptions, instead of reacting to issues. It provides network uptime and resilience essential for your IoT, big data, mobility, cloud, and video initiatives. [See how CAND works](#) and get started today.

CAND automatically clusters devices by network role. The device clusters are color-coded to show which configurations deviate from approved policy and are most associated with excessive service requests. User-configurable benchmarks can be overlaid in order to show how the current network state compares to the target state. CAND also shows how network KPIs compare with others in your industry and indicates whether an organization is leading, lagging, or tracking its peers and competitors.



Next Steps

To find out how to get started and for additional information, visit [CAND on Cisco.com](http://CAND.on.Cisco.com). To request a private briefing, contact us at sales-connectedanalytics@cisco.com.