

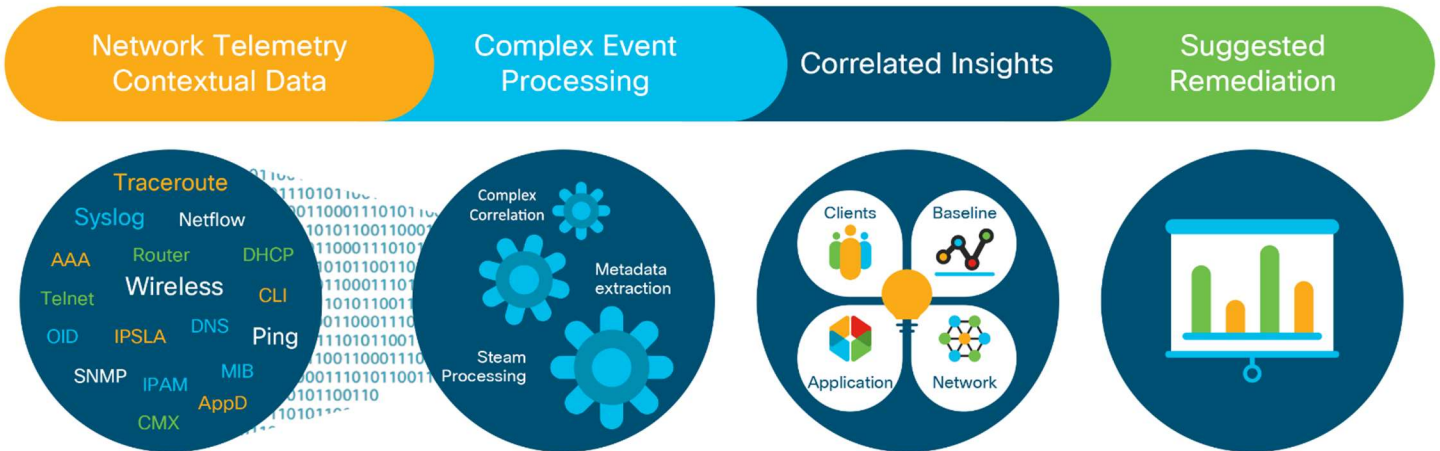
Unlock the power of AI and increase performance and reliability with AI/ML guided IT operations. AIOps with Cisco DNA Assurance for Enterprise and Cisco Nexus Dashboard Insights for Data Center Networks.



### OVERVIEW

The increase in the number of devices connected to your network and the Internet of Things (IoT) means that your team needs to manage—more efficiently than ever before—a growing, complex network. More clients, whether they are wired or wireless, more bandwidth-demanding applications, and more services depend on reliable, consistent, and secure network systems. But IT budgets haven't grown in parallel. So how do you do more with less, and how do you find the time for the new IT projects that are key to your company's core business?

Cisco DNA Assurance and Cisco Nexus Dashboard Insights both leverage Artificial Intelligence (AI) and machine learning to solve these challenges by eliminating manual troubleshooting operations and reducing the time spent resolving service issues. These platforms turn your network devices into sensors, and then uses AI and machine learning to make sense out of all this data. They provide a clean and simple dashboard that shows overall status and flags issues. Guided remediation then automates the process of issue resolution and performance enhancement to keep user experience at its optimal performance with less mundane troubleshooting work. With AIOps, your staff can grow your network and still have time to take on the new IT projects that set your company apart from your competitors.



AIOps is artificial intelligence for IT operations. It refers to the strategic use of AI, machine learning (ML), and machine reasoning (MR) technologies throughout IT operations to streamline processes and optimize the use of IT resources.

## TRACE3 AI ASSURANCE TROUBLESHOOTING METHODOLOGY

### DNA Center Assurance:

- Provides actionable insights into network, client, and application related issues. These issues consist of basic and advanced correlation of multiple pieces of information, thus eliminating white noise and false positives.
- Provides both system-guided as well as self-guided troubleshooting. For a large number of issues, assurance provides a system-guided approach, where multiple Key Performance Indicators (KPIs) are correlated, and the results from tests and sensors are used to determine the root cause of a problem, after which possible actions are provided to resolve the problem. The focus is on highlighting the issue rather than monitoring data. Quite frequently, Assurance performs the work of a Level 3 support engineer.
- Provides in-depth health scores for a network and its devices, clients, applications, and services. Client experience is assured both for access (onboarding) and connectivity.

## VALUE

### Troubleshooting Value DNA Center Assurance and Nexus Dashboard Insights:

- **Increase visibility:** View a complete network status at a glance, on a single screen
- **Save time:** Noise and false positives are reduced while accurately identifying issues that have the greatest impact on your network
- **Reduce work:** AI-driven technologies can proactively find the cause of your biggest network issues quickly
- **Speed troubleshooting:** Machine-reasoning algorithms automate remediation options for fast issue resolution
- **Help you excel:** Spend less time working on the network while at the same time increasing its performance

### Additional Data Center Network Value with Nexus Dashboard Insights:

- **Increase operational efficiency and network availability with proactive monitoring and alerts:** Cisco Nexus Dashboard Insights learns and analyzes the network behaviors to recognize anomalies before the end users do, then generates proactive alerts useful in preventing outages. Cisco Nexus Dashboard Insights also proactively identifies vulnerability exposure of the networks to known defaults, PSIRTs or field notices and recommends the best course for proactive remediation.
- **Shorten the mean time to resolution (MTTR) for troubleshooting:** Cisco Nexus Dashboard Insights minimizes critical troubleshooting time through automated root-cause analysis of data-plane anomalies, such as packet drops, latency, workload movements, routing issues, ACL drops, etc. Additionally, Cisco Nexus Dashboard Insights provides assisted auditing and compliance checks using searchable historical data presented in time-series format.
- **Increase speed and agility for capacity planning:** Cisco Nexus Dashboard Insights detects and highlights components exceeding capacity thresholds through fabric-wide visibility of resource utilization and historical trends. The captured resource utilization shows time-series-based trends of capacity utilization so that the network operation team can plan for resizing, restructuring, and repurposing.
- **Increase efficiency and reduce risks in network operations:** Configuration change management or software upgrade supporting network operations is critical. Starting with the 6.0 Release, Nexus Dashboard Insights provides a dry-run place for network operators to test and validate their intended configuration changes against a snapshot of the actual network, understanding the impacts of the changes to the network, having the opportunity to catch and correct any errors in the changes before entering them into the production network. It minimizes the risk of the network configuration changes.

Unlock the power of AI and increase performance and reliability with AI/ML guided IT operations with Trace3 professional services and Cisco's AI Assurance capabilities. For more information, contact your Trace3 Security expert or find us at [Trace3.com](https://www.Trace3.com).