

# Cisco DNA Analytics and Assurance

Solve problems before they become problems.  
The Network. Intuitive.

## Get the most from your network performance

When there is a network outage or performance glitch, IT teams need to identify the root causes before they can mitigate the problem. More analytics tools and more data don't always help IT to troubleshoot problems faster. However, having greater insight into what is happening on the network, and a platform that can recommend solutions to problems, can save IT time and increase network uptime.

Cisco® Digital Network Architecture (Cisco DNA™) Analytics and Assurance helps you get the most from your network. The solution proactively monitors your network, gathering and processing information from your devices, applications, and users and presenting it in Cisco DNA Center, an easy-to-use single dashboard for managing all your analytics tasks.

## Benefits

- Cisco DNA Center provides an easy-to-use single dashboard for monitoring network health, identifying issue root causes, evaluating network configuration changes, and remediating issues
- Cisco Network Data Platform (NDP), collects data from multiple network sources to deliver comprehensive visibility into devices, users, and applications for proper context and correlation
- Advanced correlation and machine learning algorithms proactively identify outliers that are reported as issues for remediation
- Sensors proactively generate synthetic application and network traffic to probe wireless network performance
- Recommended remediation options are driven by 30 years of Cisco domain expertise and best practices
- Integration with automation workflows enables users to quickly remediate the issue
- Open APIs can be used to integrate data with third-party analytics applications

## Putting analytics into action

The key to Cisco DNA Analytics and Assurance is its ability to continually collect and put insights into action. Cisco Network Data Platform (NDP) collects next-generation streaming telemetry, as well as traditional NetFlow records, Simple Network Management Protocol (SNMP) events, and syslog information in real time to continually monitor how devices, users, and applications are performing. The solution baselines the collected data to establish “norms” and then uses it for network analysis to find outliers.

The solution then performs advanced processing to evaluate and correlate events. You don’t need dedicated data scientists. In fact, we’re able to quickly identify the most likely root cause and offer proven best practices for resolving issues. For more detailed discovery, you can still drill down to the underlying data.

This correlated data is instantly actionable through the Assurance functions within Cisco DNA Center. The analytic insights are fed directly into this single-pane-of-glass dashboard. Inside the dashboard, the insights are aligned to tasks, so the information is available to support the way you work.

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## Faster troubleshooting, proactive monitoring, and anomaly detection

With a quick check of the health scores, you can see where there is a performance issue and the most likely cause. We even give you remediation options based on 30 years of Cisco expertise. When there are no issues, Cisco DNA Analytics and Assurance continues to evaluate trends within the network to identify areas where there might be performance or capacity degradation in the future. As a result, you can mitigate problems before they affect your network.

The insights you gather from your network devices can influence your automation configuration and deployment decisions. Cisco DNA Center provides an integrated automation and assurance/analytics workflow, enabling you to quickly take action to remediate the issue. Think of it as a closed feedback loop.

