

# AI/ML Delivers Wireless Performance and Stability with Cisco DNA Assurance

Here are some ways to help ensure that your wireless network will give you the performance and reliability you need.

## Analytics and AI/ML combine to deliver stable, fast wireless networking

Cisco DNA Assurance provides insights from every device, application, service, and client on your network, and utilizes the latest AI and machine learning technology to make sense of all this data. It adjusts performance thresholds, reduces alarms and false positives, and then automates the process of issue resolution and performance enhancement.

No other system, or combination of systems, on the market offers similar levels of intelligence, and performance enhancements.

### Cisco DNA Center and Cisco Wireless and Mobility

## Say goodbye to operational complexity

Your network is more strategic to your business than ever. This means that your IT resources needs to manage—more than ever—a growing, complex network. More wireless clients, more bandwidth-demanding applications, and more services depend on reliable, consistent,

and secure wireless connectivity. Your organization has its IT resources stretched to their limits in transforming your operations to support the new digitally connected world. Finding time for these new IT projects that are key to your core business is the biggest challenge that IT departments are facing today. With wireless assurance the days of time-consuming network troubleshooting tasks are over. Cisco DNA Assurance enables every point on the network to become a sensor, sending continuous streaming telemetry on application performance and user connectivity in real time. It then uses Cisco's powerful AI/ML analytics engine to define what levels of performance are required for optimal user experience on your

## Top ways to get more from your network

Assurance is the guarantee that your network and its devices are doing what they are supposed to do. It's the peace of mind you get when you don't have to worry about network outages. At the same time, your network needs to be agile to allow your business to innovate and keep pace with changing requirements. Not to mention staying secure. This means network commoditization is no longer enough.

network and derive insights on optimization options. The clean and simple dashboard shows overall status and flags issues. Then, guided remediation automates resolution to optimize network performance and reduce mundane troubleshooting work. With Cisco DNA Assurance 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.

[How AI/ML can spot wireless issues](#) and [Learn about Wi-Fi 6](#)

## Use insights to improve performance

Cisco DNA Assurance provides the understanding of who, what, when, where, and how network traffic is flowing. Use the insights to improve the performance of business-critical applications across the LAN, WLAN, and WAN, and to accelerate problem resolution. This enables you to reduce the network's vulnerability to outages and achieve better utilization for efficient operation and lower costs. In addition, the Cisco Aironet® Active Sensor is a compact wireless sensor that test-drives real-world client experiences by providing high-fidelity insight at ground level.

[Cisco IOS® NetFlow](#), [Cisco Aironet Active Sensor](#), [Wi-Fi Analytics for iOS](#)

## Get security that doesn't compromise agility

Every connection—most coming through Wi-Fi—expands the attack surface and ultimately puts your organization at risk. Control all access from one place across wired, wireless, and VPN connections. Cascade and enforce policies easily across all access points with software-defined segmentation. This allows you to provide and control access and security policy consistently and efficiently, removing the stress of complex access management. All without compromising agility.

[Cisco TrustSec®](#), [Cisco Stealthwatch®](#), [Cisco SD-Access](#), and [Cisco Identity Services Engine](#)

## Make your move to the cloud

Deploy and manage your network quickly and easily, without training or proprietary command-line interfaces. Get centralized management, visibility, and control without the cost and complexity of controller appliances or overlay management software. Cisco Meraki® cloud networking provides centralized cloud management, device and application visibility, real-time web-based diagnostics, monitoring, reporting, and security.

[Cisco Meraki cloud networking](#)

## Learn more

It's all good. Until it goes bad. Get the network agility your business needs, so you can innovate and adapt to future requirements. Plus keep secure while maintaining the high quality of service your users and business need. Don't treat your network as a commodity. Harness its potential for innovation, and get a foundation that will be good enough now and in the future. One that is reliable, adaptable, and secure.

Start your journey to a digital network architecture today.

[Cisco Digital Network Architecture](#)

## Connect with your customers

Create exciting new ways to engage with customers by harnessing insights from location analytics that provide accuracy up to one meter. Quickly and easily build context-aware mobile experiences by using drag-and-drop design tools. Send personalized notifications to visitors based on their real-time location. Easily integrate mobile experiences with your existing native apps using SDKs.

[Cisco DNA Spaces](#) and [Cisco Meraki cloud location solutions](#)

## Help ensure the best performance at your network edge

Give users exceptional wireless performance with a network that automatically optimizes for high-density environments. Get more speed, capacity, and reliability for business-critical applications. Get seamless continuity of service with automatic intelligent routing if a network device is interrupted. Benefit from Wi-Fi optimization and prioritization for business-critical apps on Apple devices.

[Wi-Fi 6 \(802.11ax\)](#), [Cisco Embedded Wireless Controller for an AP](#), [Wi-Fi 5 \(802.11ac\)](#), [Cisco Flexible Radio Assignment](#), [Cisco Meraki cloud wireless](#), [Cisco CleanAir®](#), [Apple and Cisco partnership](#)

## React and adapt quickly

Rapidly respond to new business opportunities through programmable, automated network control, virtualized networks, and flexible software licensing. Get centralized automation of policy-based application profiles to your WAN, campus, and access networks. Deploy virtualized network devices remotely and get flexible software licensing that will grow in value through ongoing innovation, updates, and upgrades. When issues arise, get a 360-degree contextual view of the network, devices, and apps in order to make the correct decision.

[Intelligent Capture](#), and [Cisco Meraki cloud-managed networking](#)

## Make your network a platform for innovation

Generate new revenue with faster availability of new, customer-facing digital services. Get faster time to service and innovation with reduced operational overhead by automating the provisioning and configuration of your network. Use open-source Software Development Kits (SDKs) and APIs to build innovative, network-enabled applications that meet your specific business needs.

[Cisco DevNet](#)