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Cisco Provider Connectivity Assurance Sensors F25 and F100 – Product Family Overview

Benefits

- Support up to thousands of concurrent performance monitoring sessions.

- Get granular performance data and the ability to detect performance issues before and after network changes.

- Automate deployment of network configurations and leverage intelligent auto-discovery and auto-provisioning.

- Meet the stringent synchronization requirements for 5G networks.

- Gain valuable insights from analytics and machine learning for enhanced performance troubleshooting.

Overcome the challenges of upgrading CSP networks

Communications Service Providers (CSPs) continue to upgrade network capacity to meet growing market demand for increased bandwidth and 5G network rollouts. While 5G standalone networks open the possibility to create new types of services based on low-latency network performance, these services demand a scalable, precise performance monitoring solution.

Network bandwidth upgrades require higher link speeds to maximize rack space and simplify operations. During bandwidth upgrades, service providers need to continuously monitor performance to ensure services are not impacted

and that there is minimal disruption to existing operations.

Space constraints are another common challenge for when it's time to upgrade capacity. Data centers and cell sites might have minimal space to add new equipment. High-speed monitoring devices are often larger than lower-capacity devices, making them potentially difficult to install or requiring lengthy and disruptive maintenance.

The Cisco Provider Connectivity Assurance Sensors F25 and F100 (formerly the Accedian Skylight Flex Performance Elements product family, including Flex 25 and Flex 100) can help

you solve these challenges. The F25 and F100 Assurance Sensors are compact Network Interface Devices (NIDs) that enable full performance and visibility of the network along with control of that traffic through service creation and demarcation, microsecond shaping, and full traffic management. Available in 25 Gigabit Ethernet (GE) or 100 GE capacities, these devices provide a compact form factor and are proven in large global networks. In fact, these Assurance Sensors options are used by service providers with hundreds of thousands of endpoints—and can handle billions of daily performance measurements to keep your networks running at their peak.
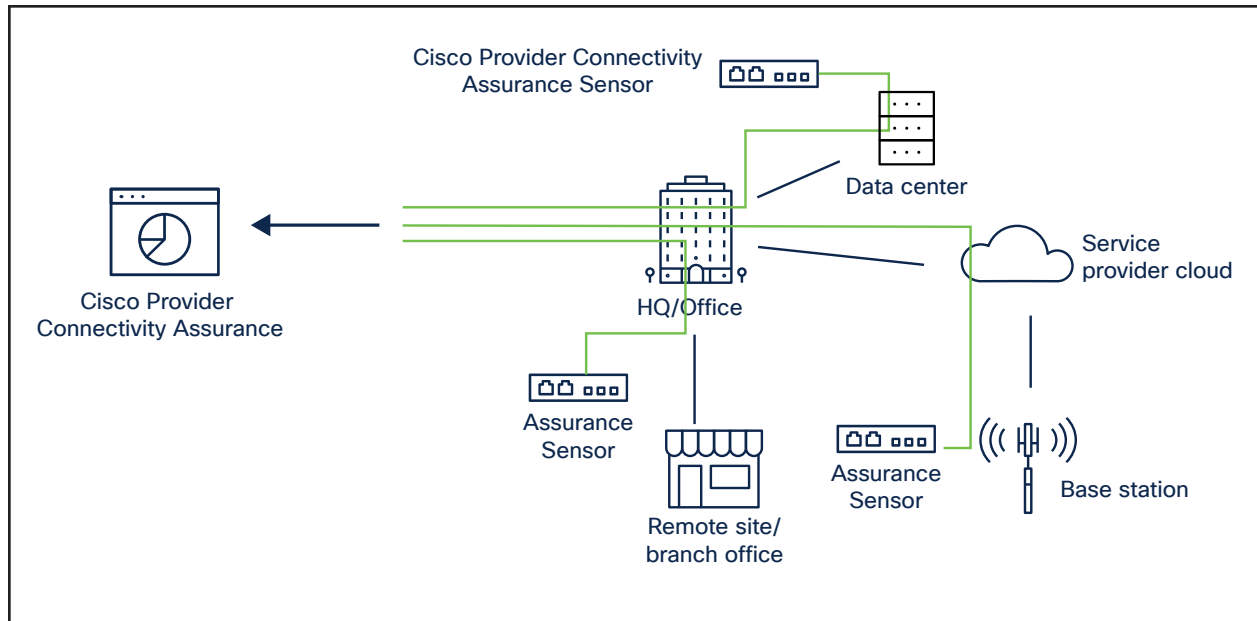
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Figure 1.   Cisco Provider Connectivity Assurance Sensors deployed across the network

What it does

Monitor performance without disruption

Cisco Provider Connectivity Assurance Sensors F25 and F100 enable you to automate provisioning and maximize the performance of your network–while gaining complete visibility into how services are performing and how end users are experiencing those services. The compact sensors also make it easy to upgrade service bandwidth by increasing the port density in available rack space. The F25 and F100 Sensors are designed to collect performance data across infrastructure layers 2 through 4 and bandwidth and port-level statistics. And they do it all continuously, in real time with high precision and at high volume.

Power your evolving network with Provider Connectivity Assurance

The Provider Connectivity Assurance platform is designed for high-speed demarcation endpoints, business Ethernet, and service provider handoff. The Assurance Sensors also support the synchronization requirements of 5G networks and services. Provider Connectivity Assurance supports high-bandwidth services and applications with precise and granular monitoring to help service providers meet stringent customer SLAs.

Learn more

For more information about Cisco Provider Connectivity Assurance Sensors, please visit cisco.com.