



nGenius Integrated Agent for Cisco ISR

Cost-effective visibility into branch office network and application performance



At-A-Glance

What is the nGenius Integrated Agent?

The nGenius® Integrated Agent for Cisco® Integrated Services Routers (ISR) integrates industry-leading probe technology from NetScout® into Cisco Integrated Services Routers to provide a cost-effective data source for nGenius Performance Manager.

The integrated solution enables IT managers to maintain always-on visibility into branch WAN and LAN traffic to optimize consistent and reliable service delivery.

nGenius Integrated Agent Features

Packet-Flow Support

The nGenius Integrated Agent offers the same functionality as nGenius hardware-based probes but in a cost-optimized, software-based form factor.

The nGenius Integrated Agent delivers:

- Key network metrics, such as utilization, conversations, error conditions, resource utilization, and response time on physical and virtual links
- Application recognition and monitoring of well-known, custom-developed, complex, web-based, and VoIP applications and services
- Response time and key performance indicators
- Real-time alarms and event notifications
- On-demand packet capture from local environment

WAN and LAN Monitoring Interfaces

The nGenius Integrated Agent has two monitoring interfaces that simultaneously monitor traffic destined for the WAN uplink and local LAN traffic. The information gathered from these interfaces is analyzed by nGenius Performance Manager to enable:

- Granular utilization and response time analysis from the branch user perspective
- Site-to-site or site-to-cloud monitoring in decentralized networks

- Validation of WAN-optimized traffic or QoS policy compliance
- Accelerated remote troubleshooting from centralized location
- Capacity planning analysis and reporting

Leverages Cisco Services Ready Engine

The nGenius Integrated Agent is hosted on Cisco Services Ready Engine (SRE) modules, high-performance router blades for Cisco ISR G2, and the Cisco Enhanced Network Module (NME), which runs on Cisco ISR G1.

- The Cisco SRE and NME have their own processors, storage, network interfaces, and memory that operate independently of the host router resources, helping to ensure maximum concurrent routing and nGenius Integrated Agent performance.
- nGenius Integrated Agent can be remotely provisioned on the modules at any time.

nGenius Performance Manager Analysis

nGenius Integrated Agent requires nGenius Performance Manager to view real-time and historical analysis and reports. nGenius Performance Manager unifies data from multiple data sources and viewpoints to provide the information necessary to:

- Manage application and network performance to protect against service degradations
- Optimize and plan for capacity changes to minimize unnecessary bandwidth upgrades
- Validate service levels of both new and existing applications to assure quality of experience

nGenius Integrated Agent Benefits

The nGenius Integrated Agent provides cost-effective visibility into branch office services by leveraging the integrated services capabilities of the Cisco Integrated Services Routers and feeding packet-flow-level information

to nGenius Performance Manager for a unified view of the service delivery environment.

Benefits of the integrated solution include:

Low Total Cost of Ownership

Reduces both capital and operational costs of monitoring the branch office:

- Lowers power, cooling, cabling and space costs
- Eliminates field deployment costs when provisioned remotely
- Reduces expenses due to technician or device dispatch to remote sites

Operational Efficiency in the Branch Office

- Speeds and simplifies remote troubleshooting
- Minimizes need for technician or device dispatch to remote sites
- Facilitates optimal network availability and performance
- Delivers consistent, high-quality user experience

Enterprise-wide Operational Consistency

- Extends packet-flow visibility into the branch WAN, local LAN, branch-to-branch and cloud services
- Seamlessly deployed into existing nGenius Performance Manager environments for true end-to-end visibility

Remote Administration

Simplifies management of branch networks

- Reduces management complexity
- Optimizes IT staff productivity
- Simple, single-package installation