



Defend your network

with NetGuard Cybersecurity Dome

NOKIA

With cyber attacks, every second counts — and has a cost

Security operations teams are under mounting pressure to defend against increasingly complex cyber threats and contain the escalating financial impact of breaches. As network environments become more interconnected, safeguarding them has grown both critical and challenging.

The adoption of cloud infrastructure, expanded use of application programming interfaces (APIs), and evolving network architectures are broadening the potential attack surface, giving malicious actors new opportunities. Security teams across Communication Service Providers (CSPs)—from telecom to critical service sectors—face a flood of alerts clouded by false positives, while breach costs continue to rise.

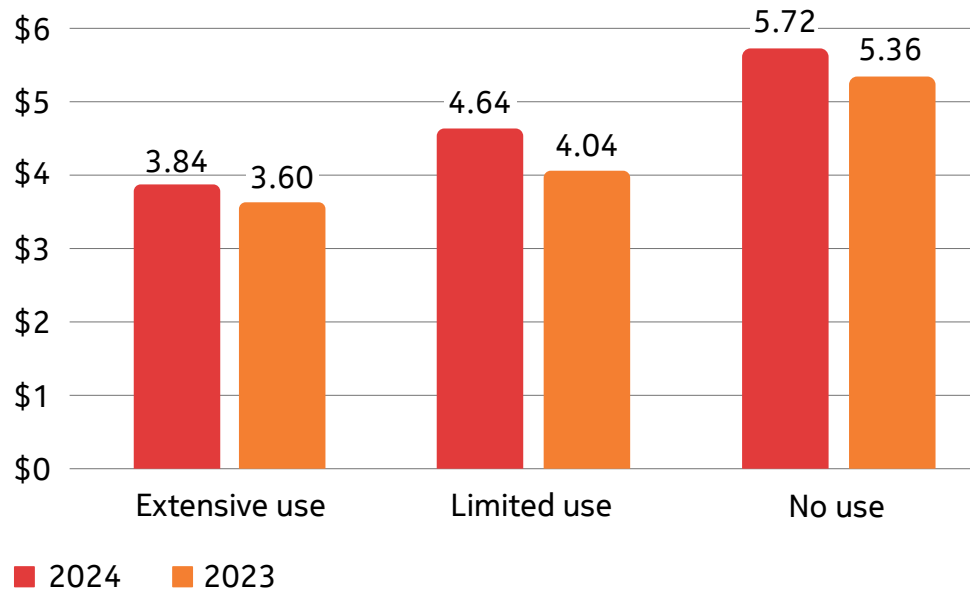
To address these challenges, security operations teams need powerful, responsive tools to detect and respond to threats in real time—solutions like the automated, AI-driven Nokia NetGuard Cybersecurity Dome.

The average cost of a full data breach has now reached \$4.88 million—and it's still climbing.

(Ponemon Institute, Cost of a Data Breach Report 2024)

The longer a breach remains undetected, the higher the price tag

Cost of data breach by AI and automation usage levels



Without AI or automation, organizations face average data breach costs of \$5.72 million in 2024, with resolution times extended significantly. In contrast, organizations that utilize AI and automation see average breach costs drop to \$3.84 million—a savings of nearly \$1.88 million. Not only does AI reduce financial impact, but it also accelerates response times by streamlining threat detection and incident management.

Nokia's NetGuard Cybersecurity Dome leverages these capabilities by integrating AI-driven Extended Detection and Response (XDR) across all network domains—from the 5G core to the RAN and transport networks. This holistic approach translates to significant cost savings and enhanced risk mitigation for service providers.

Organizations not using AI faced average costs of \$5.72M, while those leveraging AI had costs of \$3.84M:

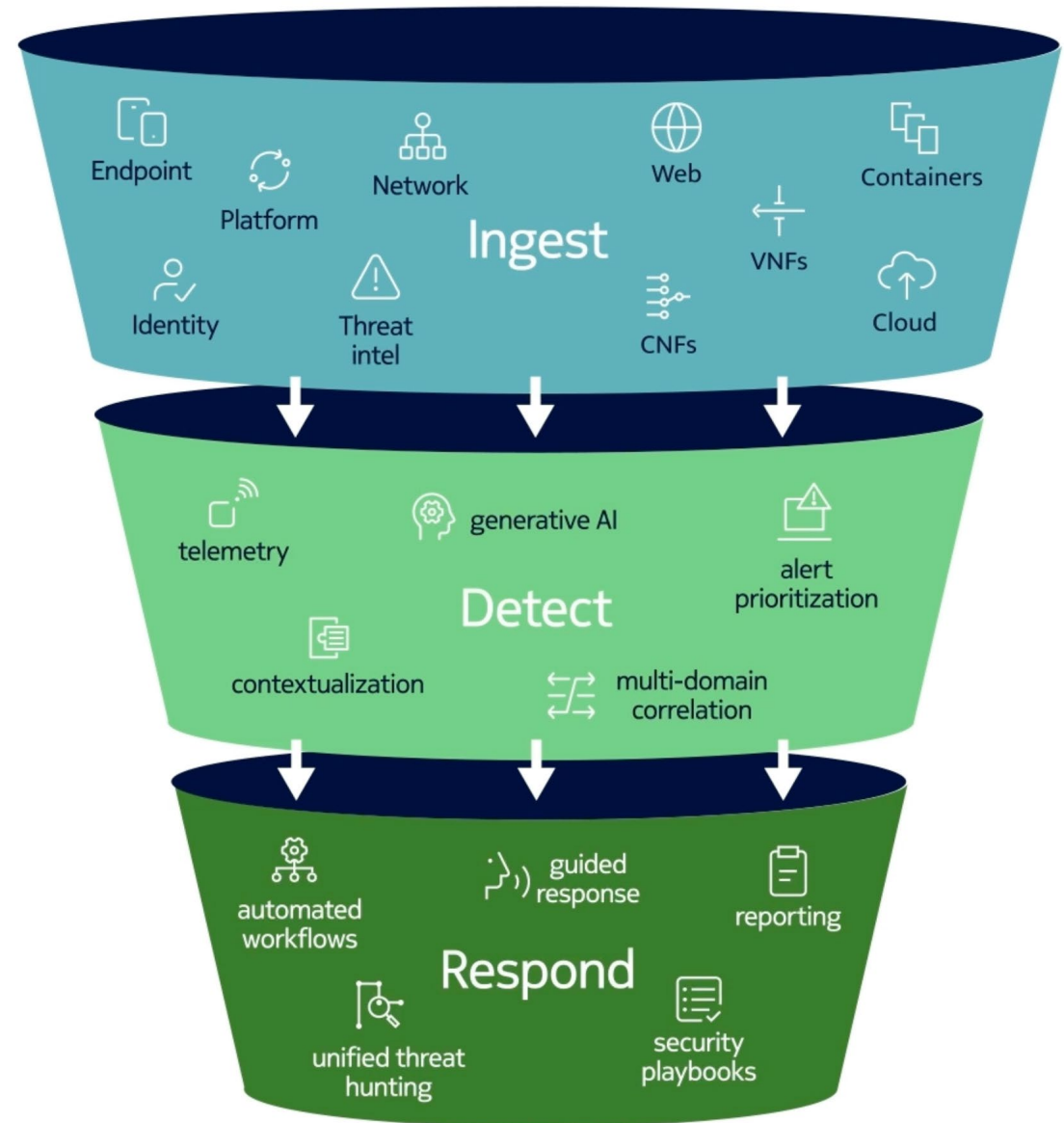
a savings of \$1.88M

Built for today's SecOps reality

In today's dynamic threat environment, attackers employ sophisticated tactics to bypass detection and penetrate networks. Exploiting vulnerabilities across cloud, endpoint, identity, and application layers, they can breach deeper into complex 5G architectures. SOC analysts, burdened with alerts from multiple siloed tools, often experience alert fatigue, burnout, and limited visibility, making effective response challenging.

CSPs and mission-critical businesses need a security approach that unifies SOC operations, combining real-time telemetry with AI-driven insights to drive decisive action. Nokia NetGuard Cybersecurity Dome provides a centralized, XDR-powered command center that consolidates threat data across cloud, network, and endpoints, prioritizing critical threats and enabling CSPs and mission-critical businesses to defend against sophisticated attacks at scale.

Experience how NetGuard Cybersecurity Dome works—try the self-guided demo below!



Delivering advanced security assurance

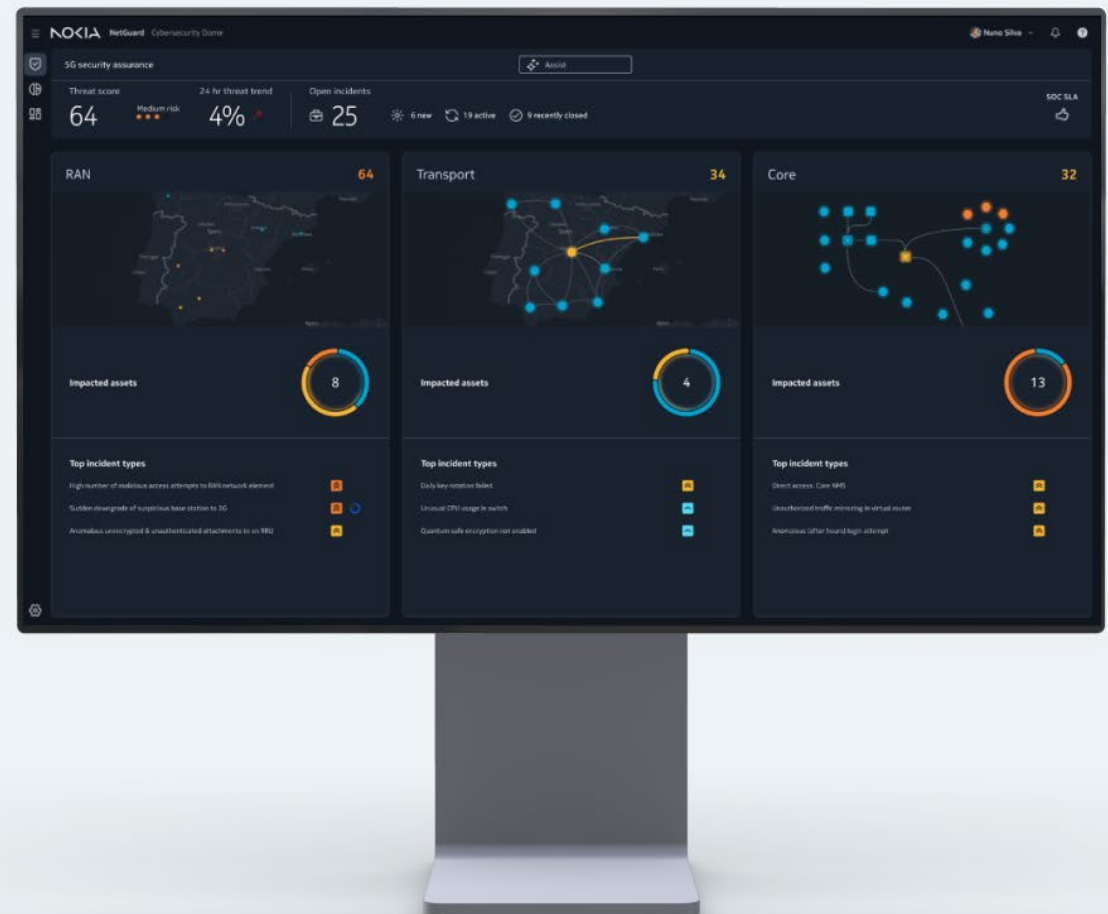
NetGuard Cybersecurity Dome provides the security assurance capabilities CSPs and mission-critical businesses need to be confident in every part of the network so it can protect itself from attack no matter how the threat landscape evolves.

Unified, multi-domain security intelligence

NetGuard Cybersecurity Dome consolidates security data across 5G domains—core, transport, RAN, and cloud—giving SOC teams a real-time, unified view of the network's security posture. This integration enables seamless threat detection and response across every layer of the network.

Dynamic threat scoring and predictive analytics

NetGuard Cybersecurity Dome's AI-driven, multi-domain threat scoring assesses risk at the network element level, helping SOC teams prioritize critical threats and restrict access to high-risk elements and users. Predictive analytics anticipate potential attacks, reducing response times and enhancing proactive defenses across the 5G network.



Automated response and custom cyber playbooks

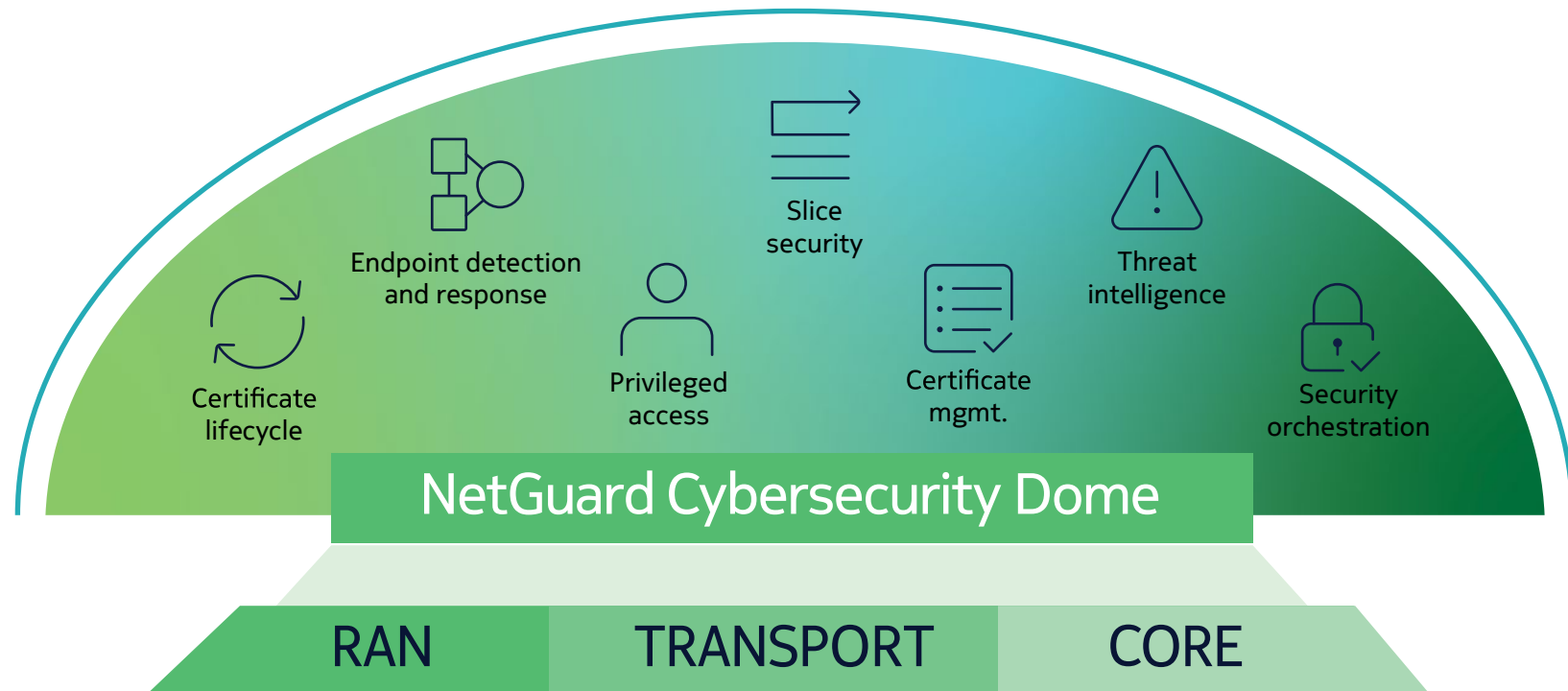
Customizable playbooks automate response workflows, enabling security teams to respond instantly to critical threats. This automated incident response minimizes manual intervention, helping SOC teams scale their defenses effectively and consistently.

5G-optimized GenAI assistance

NetGuard Cybersecurity Dome's telecom-focused GenAI assistant leverages Nokia's expertise and Microsoft Azure OpenAI to analyze 5G threat data, providing SOC teams with contextual insights and response recommendations. Built on frameworks like MITRE ATT&CK and FiGHT, it minimizes false positives and supports faster, more accurate incident resolution.

Modular and compliant design

Built to meet 5G standards and regulations, NetGuard's modular design allows flexible deployment across telecom infrastructures, ensuring CSPs and mission-critical businesses can scale security to fit their unique compliance and network needs.



What sets Nokia NetGuard Cybersecurity Dome apart?

NetGuard Cybersecurity Dome offers powerful, innovative features and applications that stand out from other security-as-a-service solutions today:



Purpose-built for critical communications

NetGuard Cybersecurity Dome is uniquely tailored for CSPs and mission-critical businesses, offering specialized protection for diverse network architectures, slicing, and critical B2B services. It effectively addresses both legacy and modern security threats.



Optimized threat detection and prioritization

Dynamic threat scoring and AI-powered data correlation equip SOC teams with visibility and priority insights, reducing alert fatigue and enabling quick response to high-risk threats.



Enhanced efficiency through automation and GenAI support

Automated playbooks and a 5G-specific GenAI assistant streamline incident response, allowing SOC teams to address critical threats in real-time with fewer resources, lowering costs and boosting resilience.



Flexible, future-ready deployment

With a modular, compliant design, NetGuard Cybersecurity Dome provides CSPs a solution that adapts to evolving 5G security demands, meeting both current and future needs.

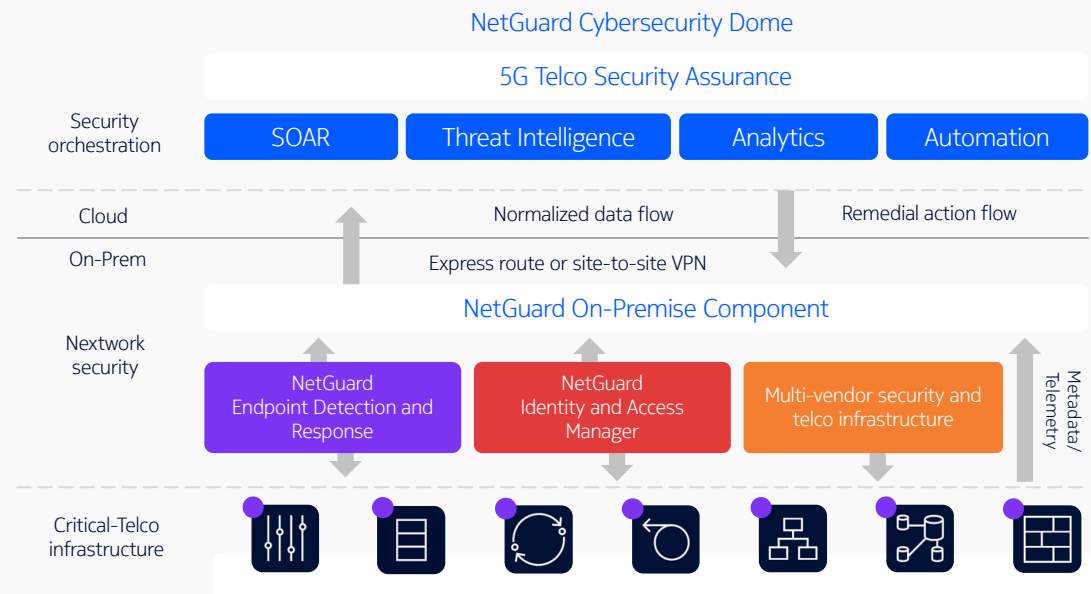
Claro Colombia's secure 5G deployment with NetGuard Cybersecurity Dome

Claro Colombia and Nokia have partnered in Colombia's largest 5G deployment, building over 1,000 secure, scalable network sites nationwide. NetGuard Cybersecurity Dome plays a central role in securing Claro's 5G infrastructure.

With Nokia NetGuard, Claro Colombia leverages:

- **NetGuard Cybersecurity Dome:** Providing a single pane of glass across core, RAN, and transport domains, Claro's security teams benefit from comprehensive visibility, streamlined threat detection, and automated responses.
- **NetGuard Endpoint Detection and Response:** This solution protects critical network functions at the customer premises, ensuring strong defense on the network element level.
- **NetGuard Identity and Access Manager:** Managing privileged access and enforcing strict policies, this tool prevents unauthorized access and detects potential insider threats.

Nokia's solutions have enabled Claro to enhance SOC efficiency, rapidly prioritize threats, and meet stringent security standards, positioning the company as a leader in secure 5G deployment across Latin America.



The leader in telco network security

Nokia NetGuard Cybersecurity Dome sets the benchmark for telco network security, backed by our deep industry expertise. Recognized by Frost & Sullivan and GigaOm as leader in the telecom XDR market, NetGuard Cybersecurity Dome integrates advanced threat intelligence, AI, and automation to defend critical infrastructures and enhance SOC operations.

Our solution provides robust, real-time insights while streamlining operations through intelligent automation. By minimizing manual tasks and reducing response times, NetGuard empowers CSPs and mission-critical businesses to manage threats effectively, reducing the overall cost and impact of security events. With Nokia NetGuard Cybersecurity Dome, organizations gain a flexible, adaptive security framework that ensures resilience in an ever-evolving threat landscape.

Visit our website or contact us today to learn more about Nokia Cybersecurity Dome.



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At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering the future where networks meet cloud to realize the full potential of digital in every industry.

Through networks that sense, think and act, we work with our customers and partners to create the digital services and applications of the future.

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