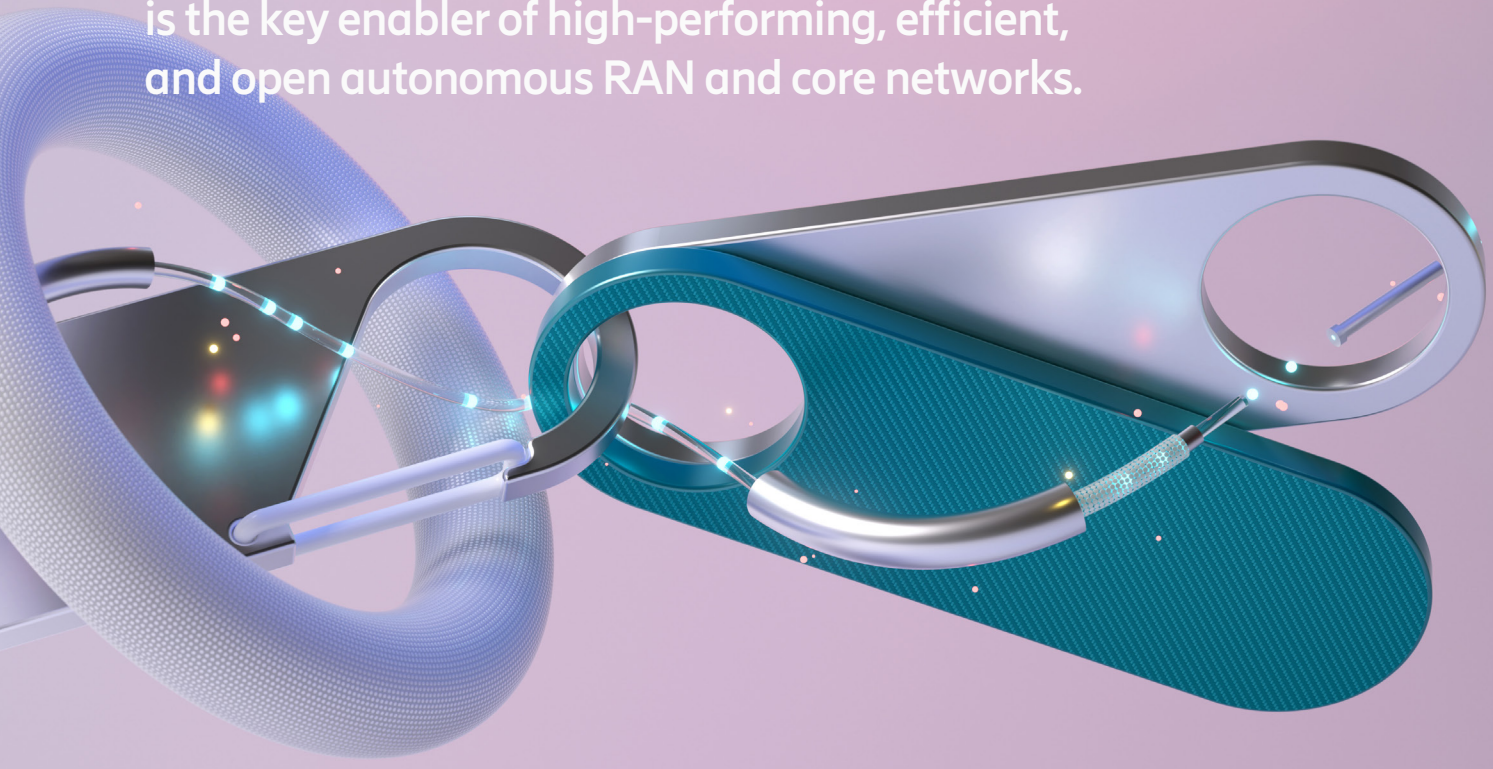
ERICSSON

One automation platform. Expanding from RAN to core.

Ericsson Intelligent Automation Platform (EIAP) is the key enabler of high-performing, efficient, and open autonomous RAN and core networks.



ericsson.com/intelligent-automation-platform

Expanding EIAP to the core

Creating the key enabler for autonomous networks

In extending EIAP's capabilities, we're creating the first unified open network management and automation platform for both RAN and core—unlocking new levels of performance, resilience, security, and autonomy for network providers.

As this shift opens up new 5G capabilities, two new paradigms form. autonomous networks and differentiated connectivity. Taken together, they represent a new context that reshapes telecom business and operations.

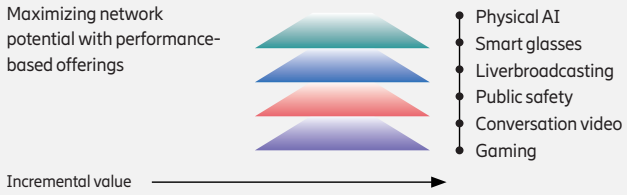
Tomorrow's networks will serve a multitude of consumer and enterprise use cases, each with its own requirements for performance, resilience, and security. AI use cases add to the connectivity equation—placing new demands on networks while simultaneously creating new monetization opportunities through more reliable and predictable connectivity.

Figure 1. Reshape the potential of CSP buiness and operations

New business paradigm

Differentiated connectivity

Specific service levels can be sold to consumers and enterprises alike.

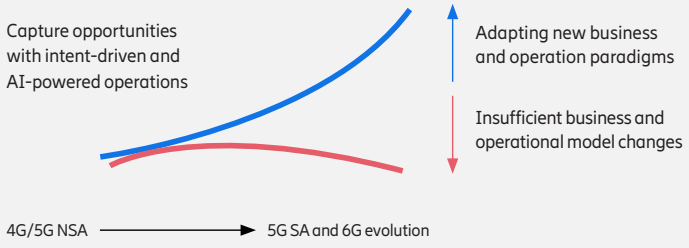


Reliable and predictable connectivity for optimal application performance

New operations paradigm

Autonomous networks

How services are delivered and how service and network operations are run efficiently.



Self-x network capabilities and zero-touch operations

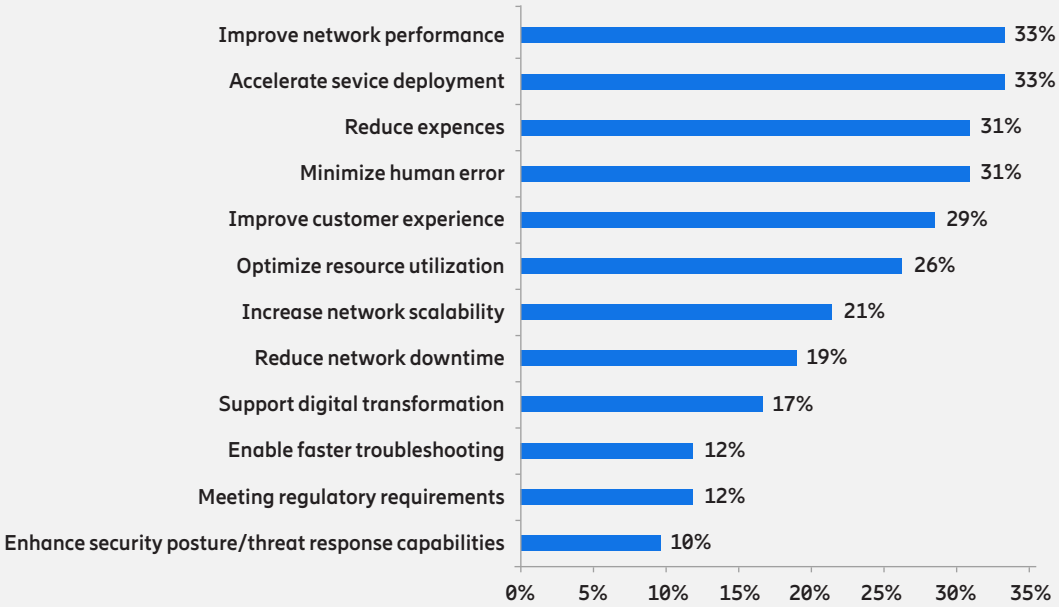
The promise of autonomy

Autonomous networks will become essential for managing increasing complexity, ensuring performance, and enabling the agility to launch new services faster. With autonomous networks, the desired outcome can be expressed through intents, leaving the network to continuously observe, detect, propose, evaluate, and act to achieve without human intervention. Progress toward higher autonomy will greatly enhance operational efficiency and TCO for existing services. And that is essential for enabling differentiated connectivity and new business opportunities at scale—leading to a new operational paradigm.

Autonomy is a key priority

As found in the recent 'CSPs' Transformation Journeys Toward Autonomous Core Networks' from Omdia, autonomous core transformation was considered 'important' or 'very important' by 93% of respondents. At the top of the use cases, 33% of the service providers pointed to network performance and faster service deployment as their top investment drivers and critical priorities.

Figure 2. The business outcomes driving CSP's autonomous core network investments



In this context, Ericsson is expanding EIAP to accelerate the journey to autonomous core networks. The leading RAN automation platform is being equipped with new data processing capabilities and expanding into core network automation, enabling optimized TCO, higher levels of network autonomy, and evolved performance, resiliency, and security of mobile networks.

As an open platform, EIAP enables a world of innovation in automation use cases through cApps. This innovation can come from us at Ericsson, operators, and third-party providers willing to develop cApps.

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EIAP for core

Unifying network automation with open, AI-driven intelligence

EIAP for core expands Ericsson's proven automation platform into the core network domain, delivering a single, cloud-native framework for operating 5G core, 4G core, and IMS together with the radio access network (RAN)—today and as networks evolve toward full autonomy.

A consolidated platform for network operations

As telco networks grow in complexity, fragmented tooling and siloed operations create friction that slows innovation and drives up costs. EIAP addresses this by consolidating automation onto one platform—reducing operational expenditure, simplifying lifecycle management, and accelerating the path from innovation to production.

At the foundation is the Ericsson Intelligent Controller (EIC), providing streamlined data management that collects telemetry once and exposes it to multiple consumers, including support for stream processing to enable faster, low latency insight delivery to rApps and cApps. Integrated MLOps capabilities manage the full lifecycle of AI models, while controlled and coordinated network actuation ensures changes are executed safely and at scale.

An open ecosystem built for extensibility
EIAP is architected around open, standardized interfaces (R1 exposure), enabling rApps and cApps developed by us, service providers, and third parties to operate side by side. A developer portal, GenAI-assisted development tools, community resources, and commercial cApp publishing support the entire application lifecycle—from creation to network-wide deployment.

Positioning toward level 4 autonomous networks

By co-locating RAN and core automation on a shared platform, EIAP drives cross-domain intelligence, unifying telemetry, analytics, policy, and actuation. This positions EIAP as the domain manager—delivering the open and scalable foundation needed to meet today's performance requirements while preparing for the full realization of autonomous, self-optimizing networks.

Figure 3. EIAP main capabilities

High observability
Comprehensive data accessibility management, exposure, and insights.

Automated operations
Automate routine tasks, predict and resolve issues, optimize performance.

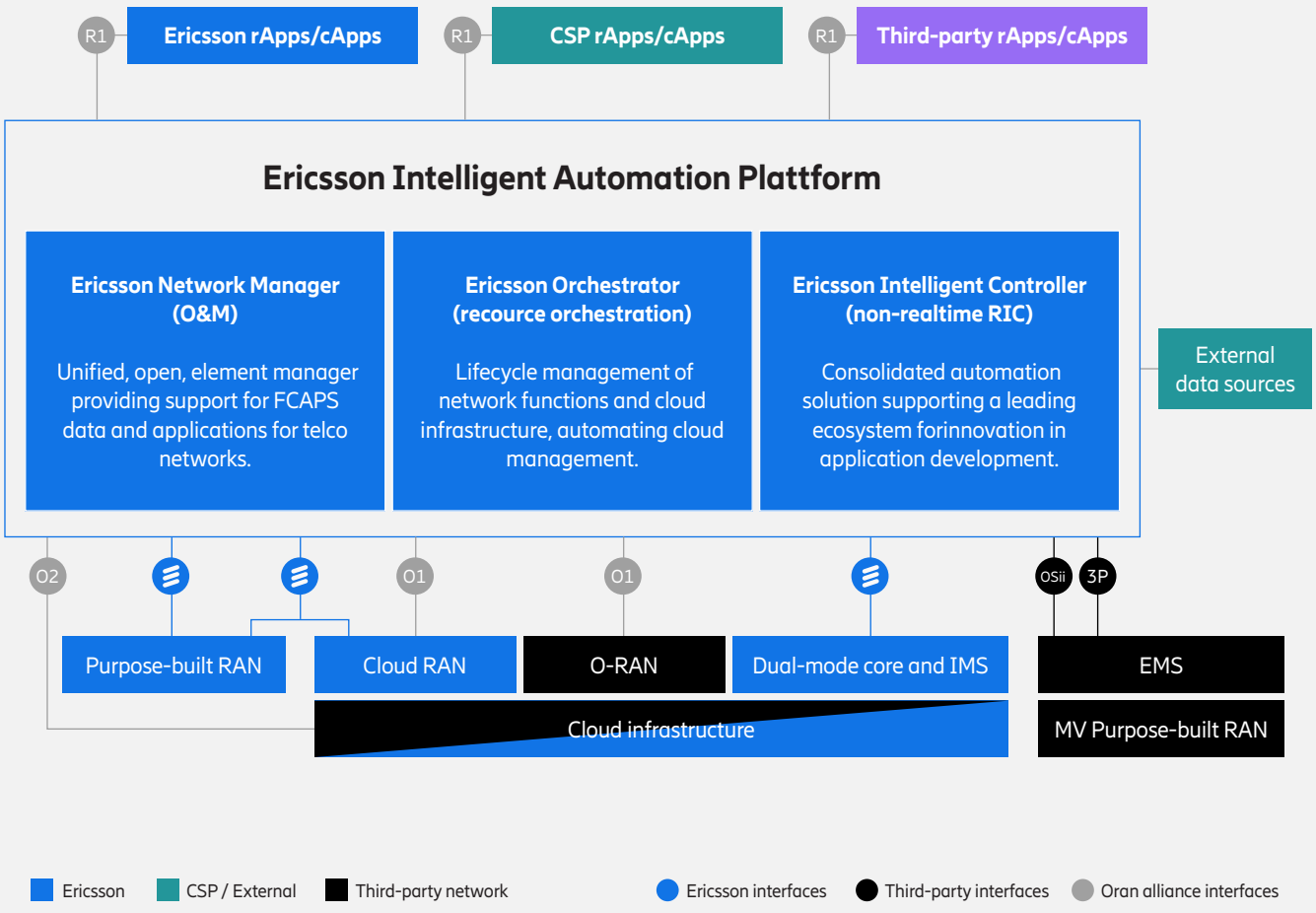
Controlled actuation
Coordinated cApp, rApp and agent control to handle and resolve conflicts.

Multivendor and extensible
Integrate data from multiple vendors and external sources.

Thriving ecosystem
One-stop rApp and cApp shop for developers, operators, and third parties.

Multidomain management
Generate synergies between RAN and core for more control over the network.

Figure 4. Ericsson Intelligent Automation Platform



Key benefits of EIAP for core

EIAP for core delivers measurable operational value by unifying RAN and core automation on a single platform —reducing TCO, enabling AI-driven intelligence to reach higher levels of network autonomy. The results are simplified operations that accelerate the journey toward autonomous operations.

Streamlined multi-domain operations

By consolidating RAN and core automation onto a shared platform, EIAP eliminates redundant tooling and simplifies lifecycle management across domains. Centralized observability and auditability accelerate troubleshooting, while coordinated actuation ensures changes are executed securely and in a controlled manner.

Low latency data for faster automation

The new Ericsson Network Manager (ENM) capability for streaming of network data - Ericsson Stream Processing and Enrichment (ESPE) makes low latency telemetry available to cApps, enabling faster closed-loop automation. The collect-once, consume-many data model reduces integration overhead and puts actionable insight directly in the hands of automation logic—at the speed networks demand.

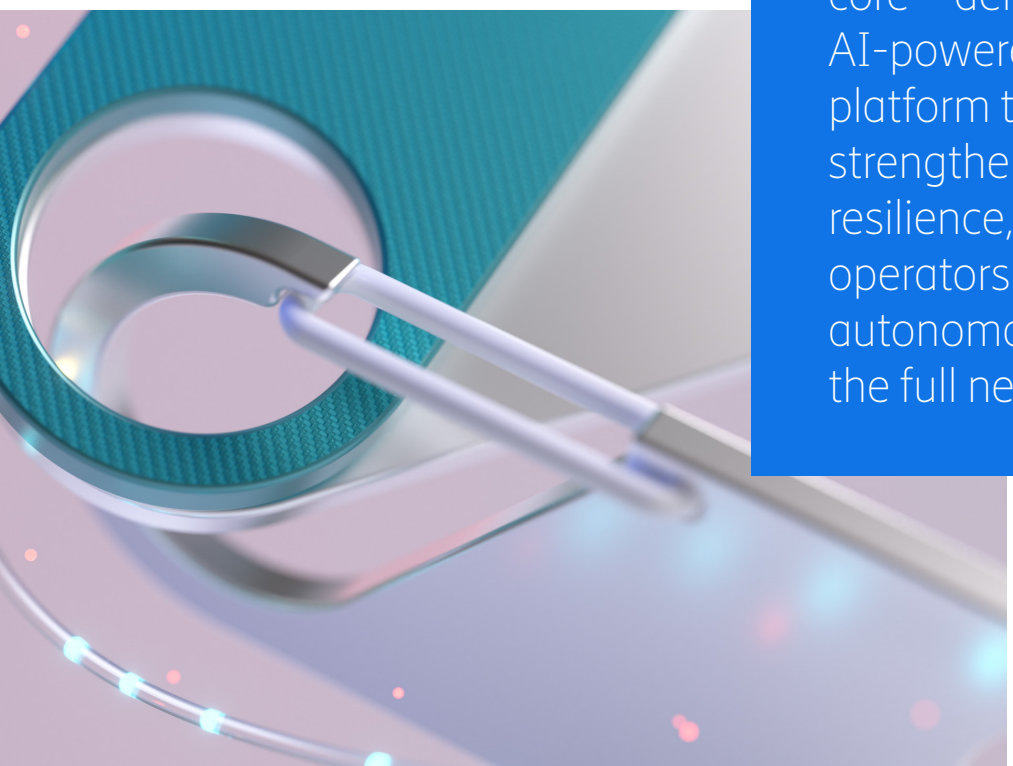
AI-driven resilience and performance

cApps built on EIAP automatically detect, predict, and resolve anomalies. Use cases such as automated UE anomaly detection, NF anomaly detection, and automated capacity planning demonstrate how AI and Ericsson's domain expertise combine to protect performance and improve network resilience.

An open ecosystem for continuous innovation

Open interfaces and a rich developer ecosystem—including a developer portal, a GenAI assistant, and commercial cApp publishing —enable operators and third parties to rapidly build, onboard, and scale new automation capabilities, accelerating time-to-value for every new cApp.

EIAP expands from RAN to core—delivering a unified, AI-powered automation platform that reduces TCO, strengthens network resilience, and positions operators to achieve level 4 autonomous networks across the full network domain.



The EIAP ecosystem

Enabling innovation in RAN and core

The EIAP ecosystem brings together operators, independent software vendors, and us at Ericsson on a shared, open platform—building a thriving developer and partner community around network automation. This accelerates app innovation and delivers automation capabilities that no single vendor could achieve alone.

A platform built for collaborative innovation

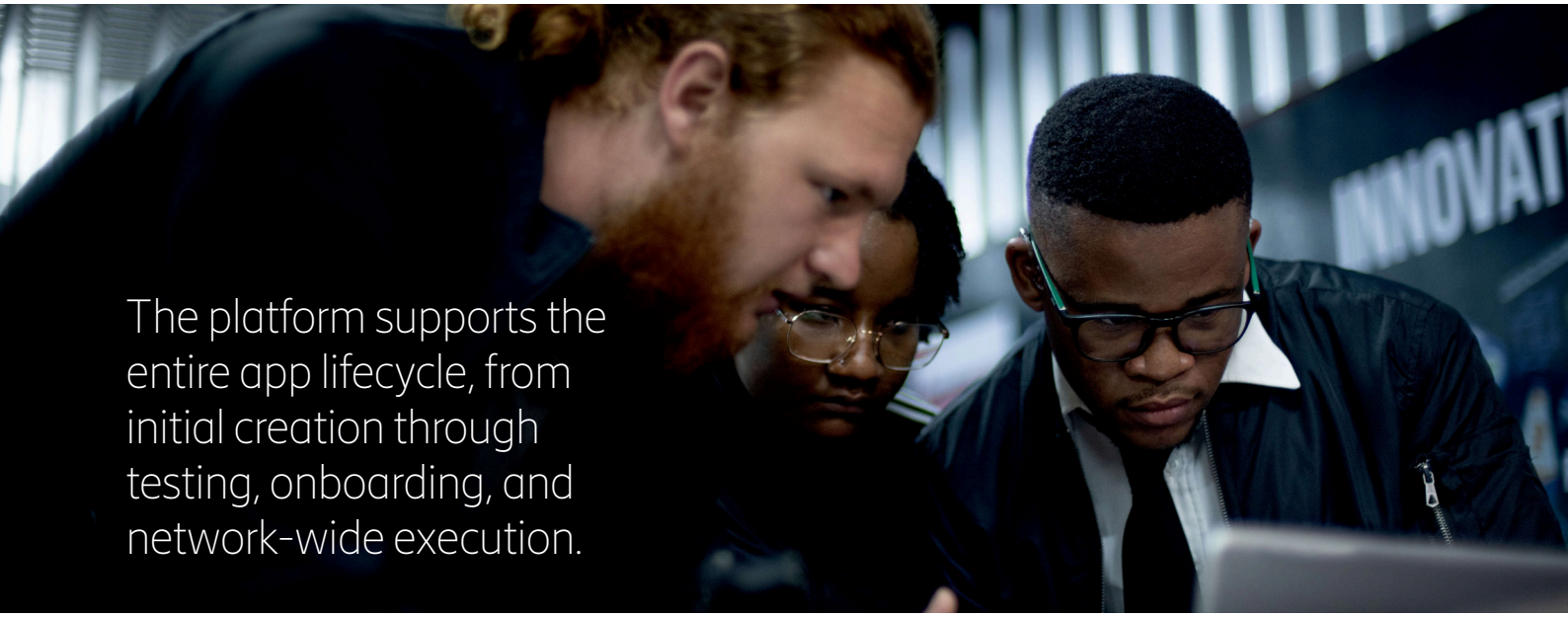
At the heart of EIAP's ecosystem strategy is openness. Built on standardized interfaces and a common SDK, EIAP enables any software vendor to develop, onboard, and commercialize rApps and cApps without depending on proprietary tooling. This architecture ensures that innovation can come from anywhere: Ericsson, CSPs, or independent third parties.

Comprehensive developer tooling

EIAP provides a full suite of resources designed to lower the barrier to entry for app development. The developer portal serves as a one-stop shop, offering access to documentation, APIs, and sandbox environments. Developer Labs provide hands-on experimentation capabilities, while structured developer training ensures teams can build production-ready applications efficiently. A GenAI-powered developer assistant further accelerates development by guiding teams through platform capabilities and best practices in real time.

A commercial marketplace for automation

The rApp directory gives direct access to a growing catalog of automation applications from multiple vendors. Ecosystem members can publish and commercially distribute their own Apps, creating new revenue opportunities while contributing to a broader pool of network automation innovation. The platform supports the entire app lifecycle, from initial creation through testing, onboarding, and network-wide execution.



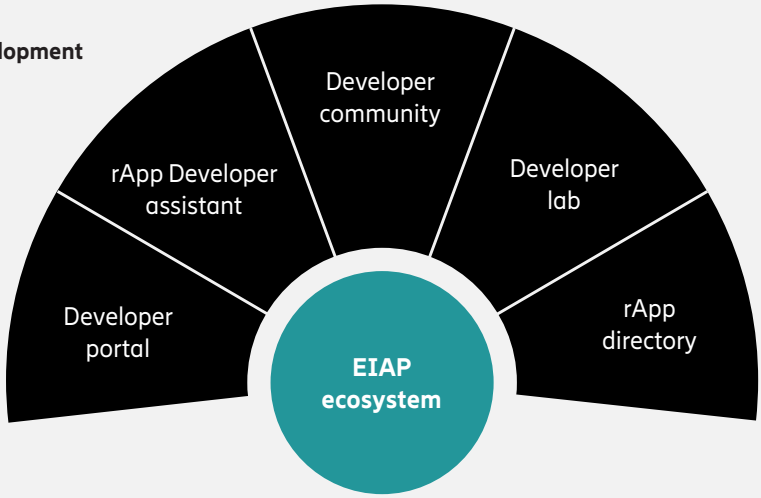
The value of joining the ecosystem

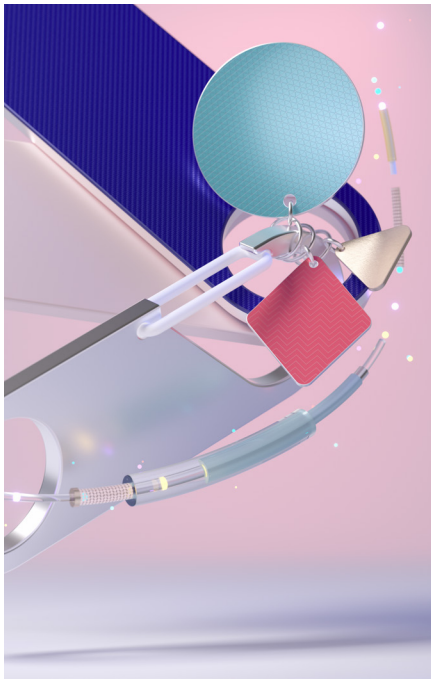
For developers and vendors, participation in the EIAP ecosystem means immediate access to a proven, cloud-native platform already deployed at scale across the RAN and now extending into the core network domain. Co-locating cApps and rApps on a shared framework for telemetry, analytics, policy, and actuation reduces integration complexity and shortens time-to-market significantly.

The ecosystem translates to faster access to cutting-edge automation capabilities, the freedom to build proprietary applications tailored to their specific operational needs, and the confidence of operating within a secure, controlled, and auditable environment—all on a single, multi-vendor platform.

Figure 5.
The ecosystem resources for rApp development

Ericson has the leading ecosystem for boosting application innovation. These are the resources available to the EIAP ecosystem members:





The EIAP ecosystem unites operators, independent software vendors, and Ericsson on a single open platform —where standardized interfaces, a commercial marketplace, and a rich developer toolchain turn network automation into a collaborative, scalable endeavor. Build, publish, and deploy apps faster, while capitalizing on a platform already proven at RAN scale.

Our vision for core automation

From connectivity to intelligence

Our vision for core automation is grounded in the evolution from today's partially automated, human-dependent networks to truly autonomous, AI-powered, cross-domain, and intent-driven networks. Networks that continuously align their behavior with business intents enable greater agility, efficiency, and operational intelligence.

The clear direction

In this paradigm, the core network no longer reacts to events through static rules. Instead, AI-powered, agentic closed loops interpret high-level intents, observe real-time conditions, and act autonomously across domains to optimize performance, resilience, and experience at scale. This is a multi-year journey, but the direction is clear: an intelligent core where self-configuration, self-optimization, self-healing, and self-protection are built in, AI-native capabilities are delivered, and SLA observability and prediction ensure provable, auditable performance. In parallel, AI-powered analytics on signaling, usage, and behavior patterns in the ore provide the basis for proactive fraud prevention and protection of high-value services, further strengthening trust in premium offerings.

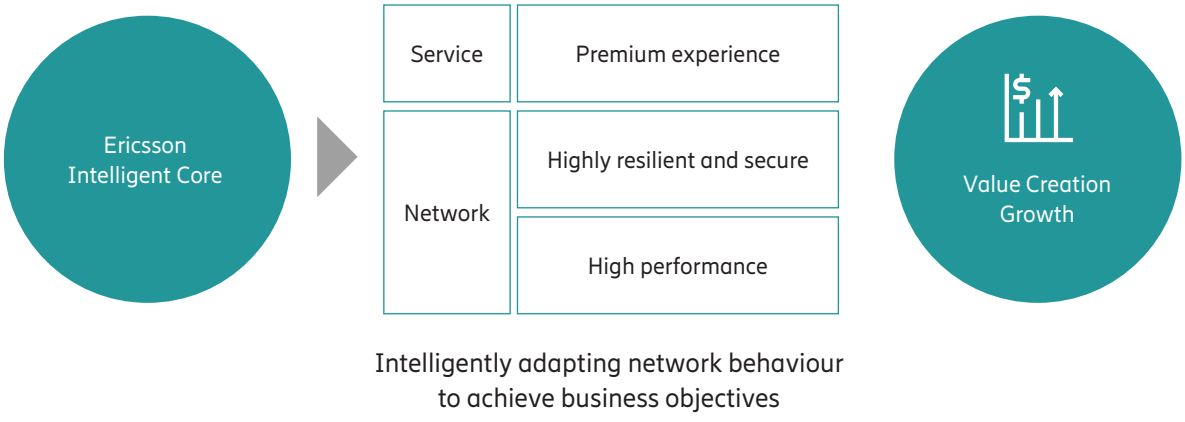
In this way, differentiated connectivity creates an opportunity to enable service differentiation.

Tangible business outcomes

This translates into tangible business outcomes—fewer fines and penalties due to incidents, lower churn through improved user experience, and lower operational expenditure through reduced manual effort and faster incident resolution. Additionally, SLA adherence improves, and time-to-market for differentiated 5G and enterprise offerings is faster.

By turning the core into an AI-native, intent-driven engine, it is possible to unlock new revenue streams from premium connectivity and systematically reduce the risks and costs associated with misconfigurations and fraud. Ultimately, strengthening competitiveness and profitability in demanding markets.

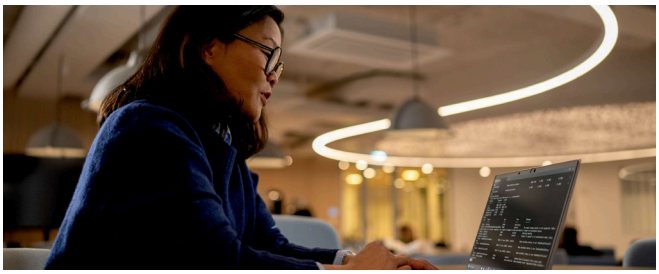
Figure 6. From connectivity to intelligence



Putting EIAP-powered automation into practice

Prioritized use cases for core automation

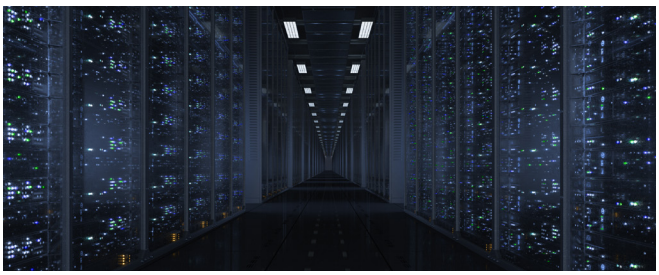
Benefits of automated healing and capacity management:



Predictive capacity

AI-powered capacity audit based on real traffic data

Maintain capacity margins and meet KPIs



Self healing

Detection of risks and incidents

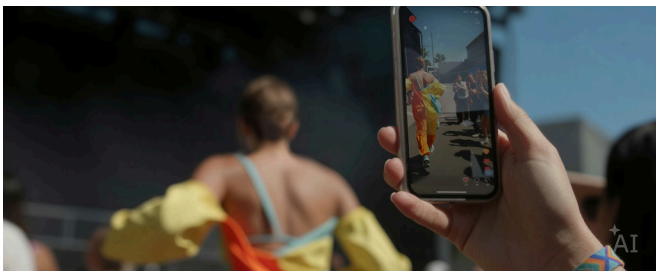
Root cause analysis and proposed action

Actions for implementation, autonomously

Security of digital stack

Protect against UE anomalies and SIM Farm threats

Protect against external signaling, access and Internet threats



Premium user experience

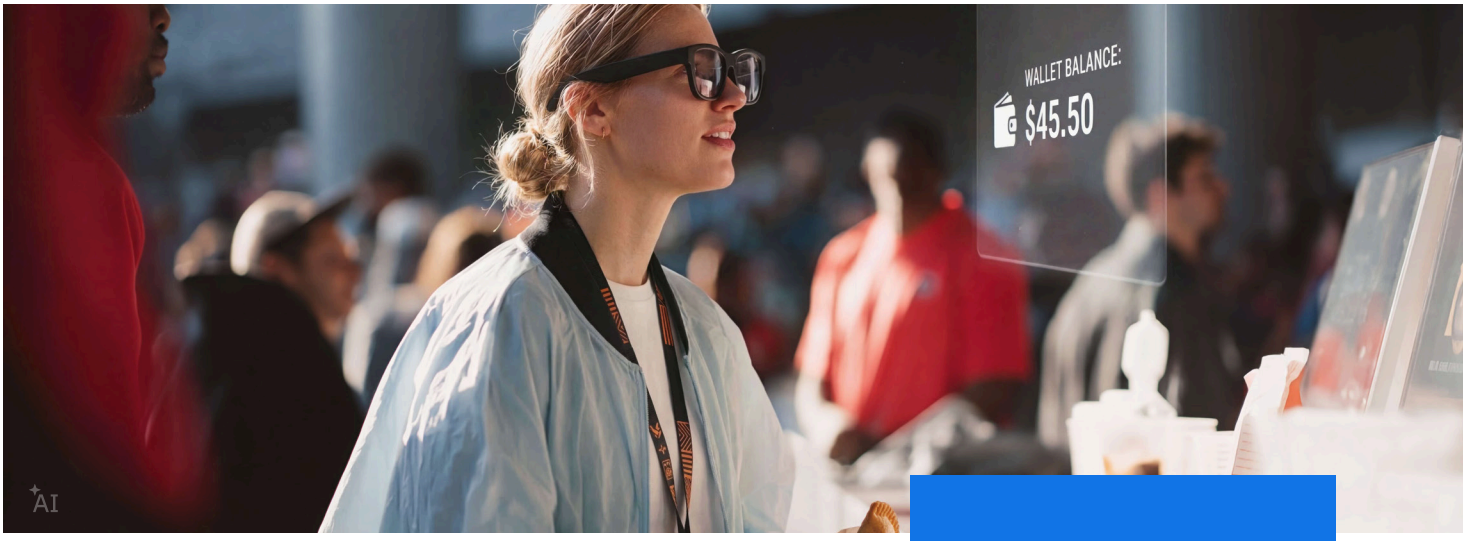
Use cases to monetize premium experience

Ensuring the right performance is delivered to the right users

Resolve issues before they occur or escalate

Capacity Audit

Accurate. Automated. Always aligned with reality.



Smarter dimensioning is grounded in real network data, eliminating guesswork and closing the gap between design assumptions and production reality. And today, the demand for precision in dimensioning is increasing.

The Capacity Audit application

Our AI-powered Capacity Audit application analyzes real traffic data from your live environment, ensuring the deployed system is accurately dimensioned.

This use case is part of a broader collection or bundle focused on bottleneck identification, capacity dimensioning simulation, and actuation. AI-powered capacity prediction requires minimal training and can run without GPU acceleration. The model explores data-point combinations across hundreds of data points and billions of possible combinations.

What it does

By validating your traffic profile against actual network behavior, the capacity audit confirms or revises your current dimensioning, giving you confidence that your infrastructure is correctly sized for the demands of today and tomorrow and providing insights into the maximum traffic KPIs the node can deliver.

What you get

Traffic profile and resource assessment

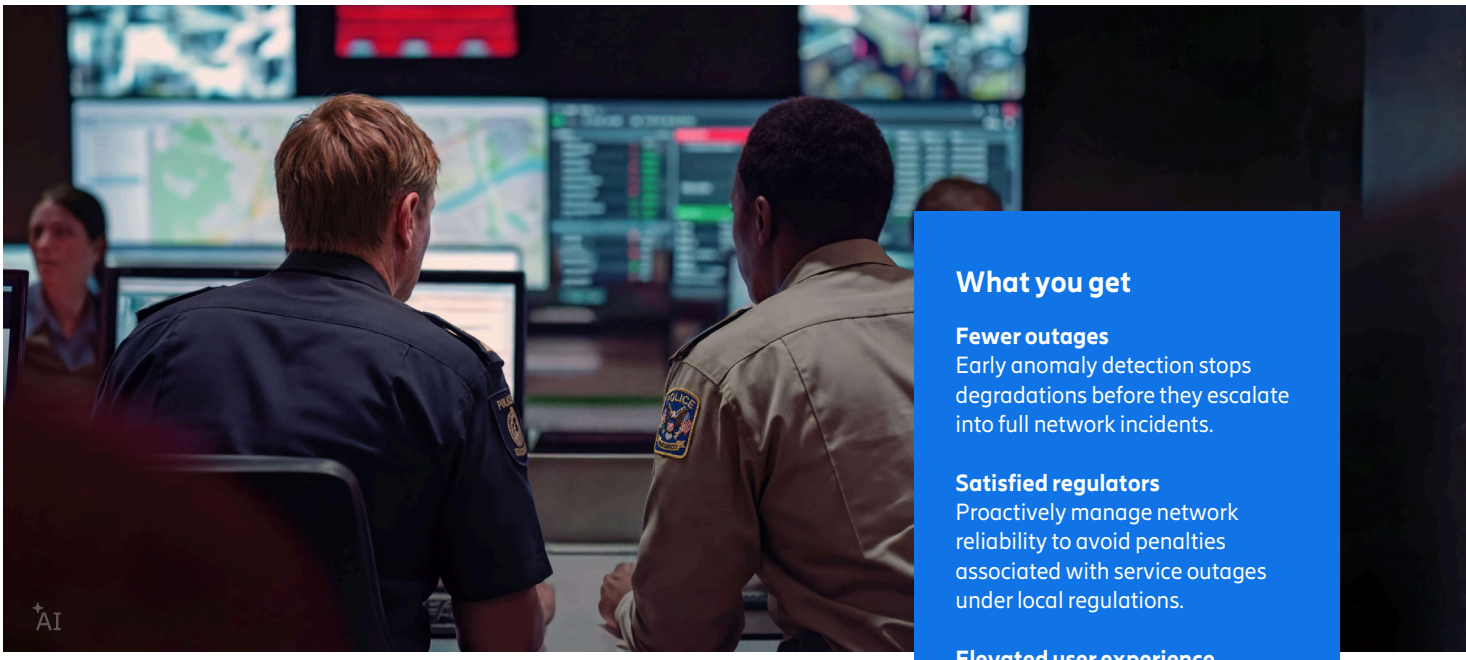
Expected maximum KPIs feature

Current infrastructure resources, powered by real data

Anomaly Detection

Intelligent. Proactive. Always watching your network.

Network function and user equipment anomalies are common and can cause chaos in the all-important core network. With AI and machine learning, problems and threats are detected, and action is taken before outages occur.



The Anomaly Detection application

Today's cloud-native networks require continuous, intelligent monitoring. Our AI-powered network function Anomaly Detection solution delivers automatic, round-the-clock analytics at the service level by detecting issues early, accelerating causal analysis, and preventing outages before they occur.

This use case is part of the preventive network-healing flow, which integrates root-cause analysis and actuation capabilities.

What it does

By analyzing network function behavior, the solution automatically identifies network function health and service-level anomalies, preventively avoiding service degradations and network incidents. Built on advanced machine learning techniques, the system dynamically detects KPI deviations from normal behavior.

What you get

Fewer outages
Early anomaly detection stops degradations before they escalate into full network incidents.

Satisfied regulators
Proactively manage network reliability to avoid penalties associated with service outages under local regulations.

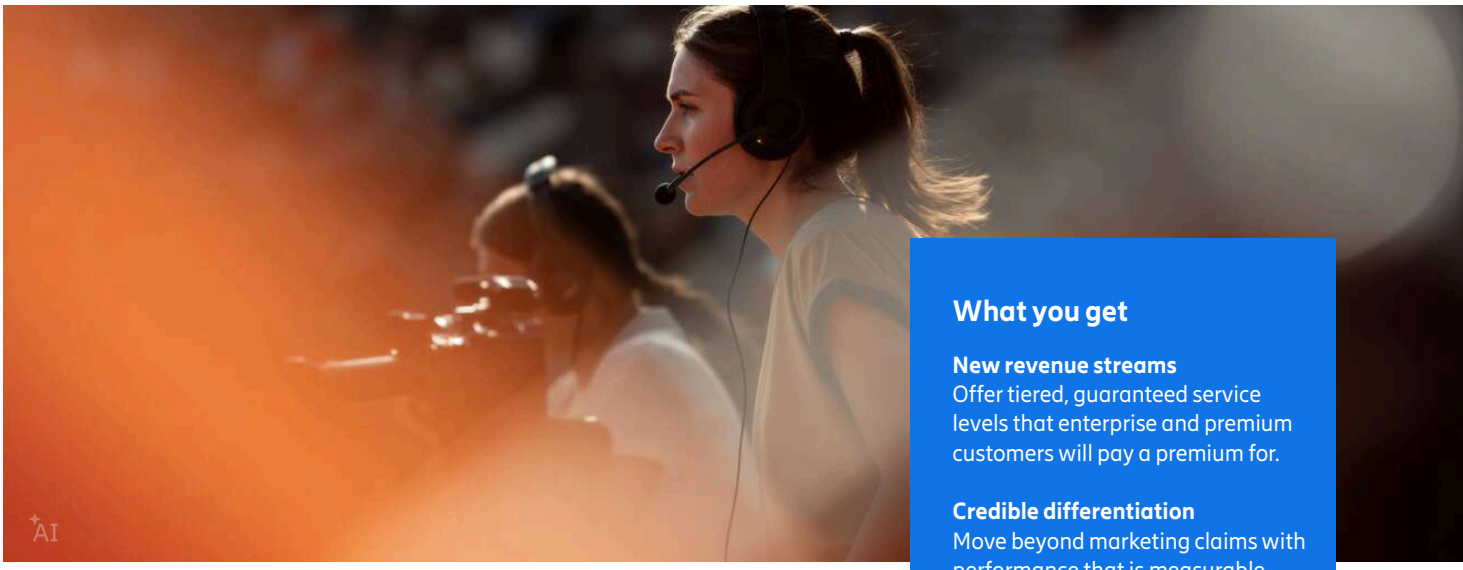
Elevated user experience
Deliver the highest possible service quality and reliability, driving user satisfaction and loyalty.

Reduced OPEX
Fault management, which traditionally takes hours of manual data collection and analysis, is automated and accelerated.

Protected revenue
Avoid customer churn driven by poor network quality, minimize reputation damage, and reduce the financial impact of outages.

Premium Experience
Promised. Measured. Delivered.

Monetizing connectivity effectively hinges on the ability to deliver measurable and enforceable performance standards. Differentiated connectivity is one of the most credible monetization levers available today, but it requires performance that can be both measured and enforced. Our Premium Experience solution turns that opportunity into reality, enabling guaranteed service levels that enterprise and mission-critical customers are willing to pay for.



The opportunity

Users' willingness to pay is directly tied to assured, specific performance attributes —latency, throughput, reliability, and prioritization. Generic 'great experience' claims no longer cut it. The strongest demand comes from enterprise, mission-critical, and premium segments where connectivity performance directly impacts business outcomes.

Premium performance unlocks experience monetization by making differentiated connectivity provable, manageable, and commercially viable.

What it does

Network resources are intelligently allocated and dynamically optimized to support offerings built around experience monetization—ensuring the right performance is delivered to the right users at the right time.

What you get

New revenue streams
Offer tiered, guaranteed service levels that enterprise and premium customers will pay a premium for.

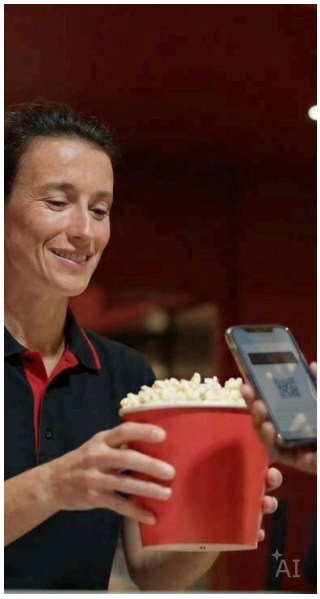
Credible differentiation
Move beyond marketing claims with performance that is measurable, enforceable, and transparent.

Cross-domain intelligence
Seamless coordination between core and RAN ensures end-to-end performance, not just single-point solutions.

Customer retention
Assured performance builds trust, reduces churn, and strengthens long-term relationships with high-value customers.

The intelligent network starts here

From automation to autonomy—a platform built for what comes next



The telecom industry stands at an inflection point. As 5G matures and enterprise connectivity demands accelerate, the gap between networks that are merely managed and networks that are truly intelligent will define competitive outcomes for years to come. EIAP is Ericsson's answer to that challenge.

By extending a proven automation platform from RAN into the core network domain, EIAP eliminates fragmented tooling and siloed operations. The platform replaces them with a unified, cloud-native framework where network data is collected once and consumed many times, AI models are managed across their full lifecycle, and closed-loop automation executes at the speed modern networks demand.

The architectural choices underpinning EIAP are deliberate and forward-looking. Open, standardized interfaces ensure the platform evolves with the industry. Stream processing enables low latency at every point in the automation loop. And a shared data and actuation layer across RAN and core creates the cross-domain intelligence that level 4 autonomous networks require—not as a future aspiration, but as an engineered progression from capabilities available today.

The cApps ecosystem turns the platform into an innovation multiplier. Capacity audit, anomaly detection, and premium experience represent the first wave of core automation use cases—each delivering measurable outcomes, including penalty avoidance, churn reduction, and new revenue from differentiated connectivity. Every application built on EIAP inherits the same secure, scalable, and observable foundation, regardless of its origin.

Looking ahead, EIAP is architected to support every step of the network evolution—from today's efficiency gains to tomorrow's full network autonomy—on a single, continuously advancing platform.

The autonomous network era is not a distant horizon. With EIAP, it begins now.

About Ericsson

Ericsson's high-performing networks provide connectivity for billions of people every day. For nearly 150 years, we've been pioneers in creating technology for communication. We offer mobile communication and connectivity solutions for service providers and enterprises. Together with our customers and partners, we make the digital world of tomorrow a reality.

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