

Ericsson Operations Engine Cognitive Software

Traditional forms of network automation are not made to meet the challenges of today's dynamic and multidimensional networks. Enabled by the ubiquity of big data and ever-expanding compute power, cognitive technologies are redefining the very nature of network operations, solving complex challenges where traditional automation falls short.

These software-based technologies leverage the velocity, volume and variety of big data generated by next-generation networks to intelligently evolve the tradeoff between network speed, cost, and quality. With unique domain knowledge built into the algorithms, cognitive technologies transform operations to deliver on complex and diverse business goals, taking service providers closer than ever to zero touch networks.

Delivering next-generation intelligent networks

Reinforcement learning to continuously optimize the network

Cognitive Technology

The arrival of 5G networks presents new paradigms of complexity for today's communications service providers. Transforming these complexities into opportunities, cognitive technologies blend big data with unique network domain expertise to deliver unprecedented speed, scale and accuracy in emerging intent-based network operations.

For further information, please visit <https://www.ericsson.com/en/managed-services/cognitive-technology>

Network Optimization Services

Network optimization is achieved by applying industry-leading, AI-powered technologies throughout the network lifecycle to align network performance with strategic objectives and maximize return on investment.

Leveraging live and predictive network data, network optimization technologies push the network to its maximum potential, proactively resolving performance issues ahead of subscriber impact. Through active monitoring and predictive forecasting, network planning technologies evaluate future network demands and identify where and when to expand capacity for maximum returns, months in advance.

This results in an always-on, high-performing network – tailored to strategic business objectives and ready to meet increasingly critical performance demands of future 5G use cases.

The following article describe an example of pioneer activity on AI applied to network optimization: <https://www.ericsson.com/en/reports-and-papers/mobility-report/articles/reinforcement-learning>



High-performance networks that adapt to your business demands

Boost ROI & user experience with AI planning & Optimization

Network optimization

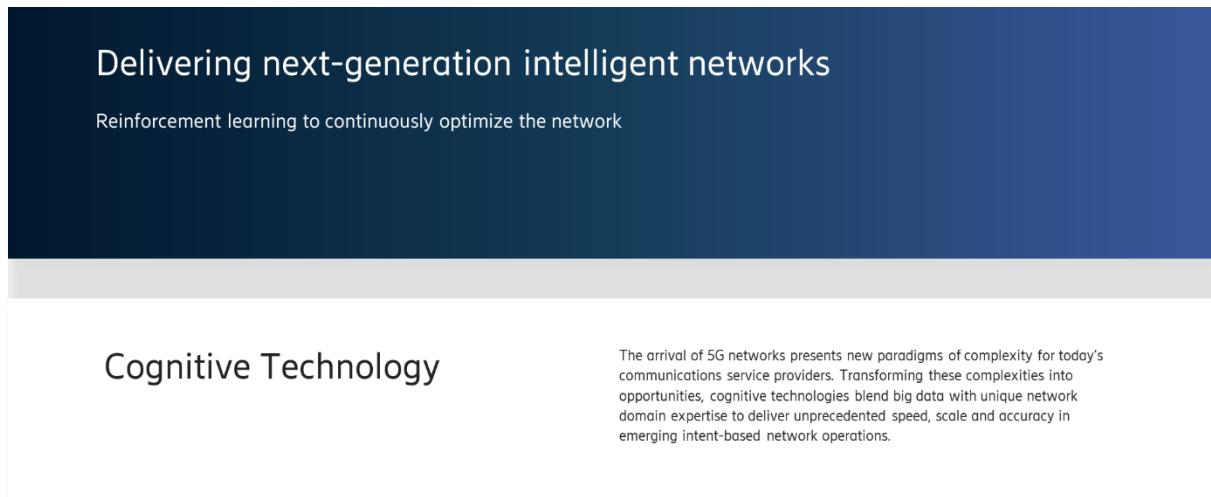
Mobile networks are growing more expansive and complex. With infinite 5G opportunities on the horizon, communication service providers (CSPs) can gain an edge through AI-powered, data-driven network optimization technologies - maximizing both the network's performance and potential, while intuitively delivering on strategic objectives amidst growing scale and complexity.

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Las formas tradicionales de automatización de redes no están pensadas para abordar los desafíos de las redes dinámicas y multidimensionales de hoy. Las tecnologías cognitivas están redefiniendo la naturaleza misma de las operaciones de red, resolviendo desafíos complejos donde la automatización tradicional se queda corta, gracias a la ubicuidad del big data y una potencia de computación en constante expansión.

Estas tecnologías software aprovechan la velocidad, el volumen y la variedad del big data generado por las redes de última generación para evolucionar de manera inteligente el compromiso entre la velocidad de datos, el coste y la calidad de la red. Con un conocimiento de dominio único integrado en los algoritmos, las tecnologías cognitivas transforman las operaciones para cumplir con objetivos comerciales complejos y diversos, acercando más que nunca los proveedores de servicios a las redes autogestionadas.



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Servicios de Optimización de Redes

La optimización de la red se logra mediante la aplicación de tecnologías impulsadas por la inteligencia artificial durante todo el ciclo de vida de la red para alinear el rendimiento de la red con los objetivos estratégicos y maximizar el retorno de la inversión.

Aprovechando datos reales y predichos de la red, las tecnologías de optimización sacan de la red su máximo potencial, resolviendo de manera proactiva problemas de rendimiento antes del que afecten al usuario. Mediante el monitoreo activo y el pronóstico predictivo, las tecnologías de planificación evalúan las demandas futuras de la red e identifican dónde y cuándo expandir la capacidad para obtener un máximo rendimiento, con meses de anticipación.

Esto da como resultado una red siempre activa y de alto rendimiento, adaptada a los objetivos comerciales estratégicos y lista para satisfacer las demandas de rendimiento cada vez más críticas de los futuros casos de uso de 5G.

El siguiente artículo describe un ejemplo de actividad pionera en la aplicación de la inteligencia artificial a la optimización de redes: <https://www.ericsson.com/en/reports-and-papers/mobility-report/articles/reinforcement-learning>

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