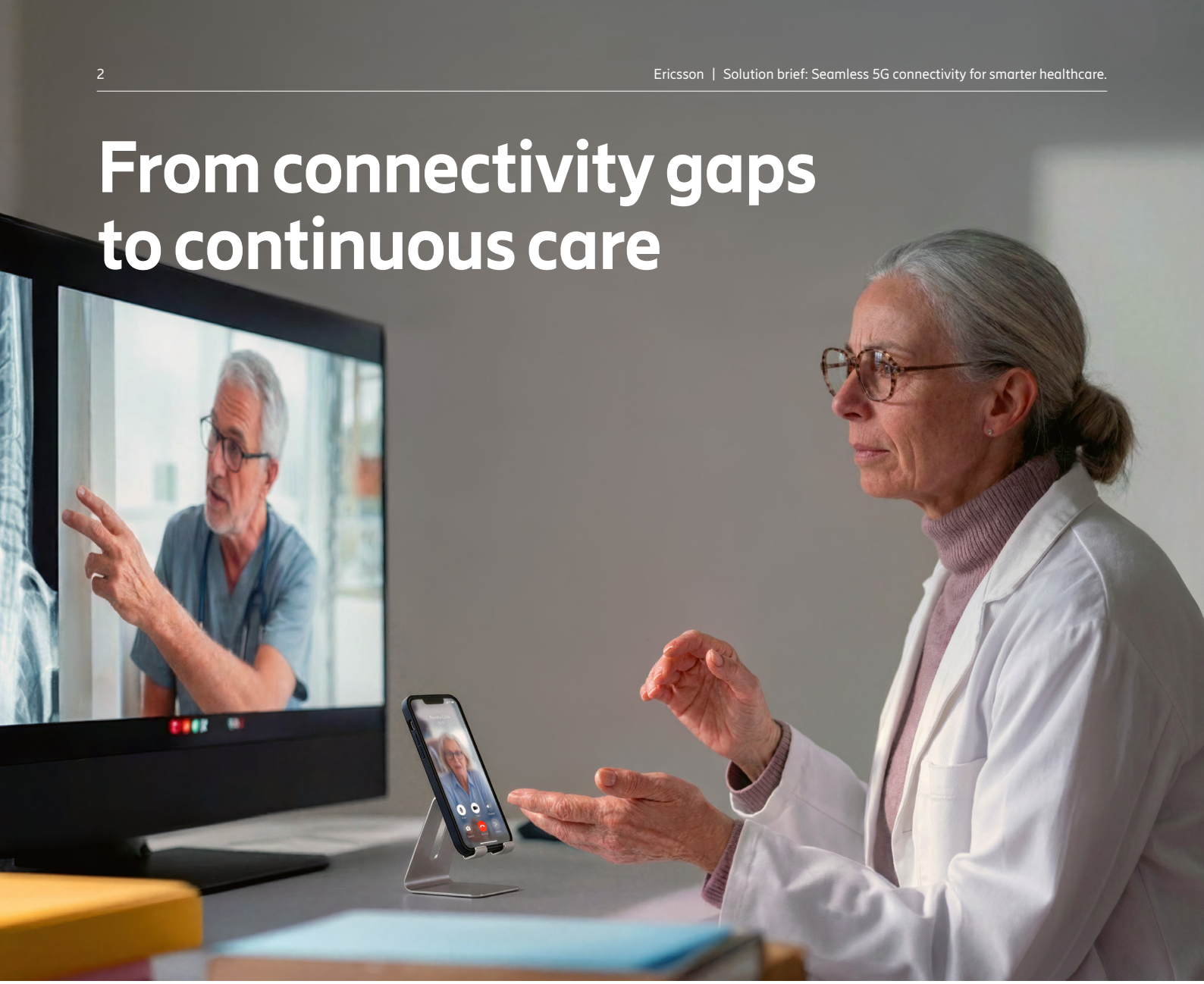
ERICSSON

Solution brief

Seamless 5G connectivity for smarter healthcare

Reliable, secure clinical mobility across hospitals, clinics, and care-at-home environments

From connectivity gaps to continuous care



Modern healthcare depends on reliable, secure connectivity—inside hospitals, across distributed clinics, in diagnostic and lab environments, at home, and even on the move. As care models become more distributed, traditional networks create bottlenecks that limit mobility, delay workflows, and constrain innovation.

Enterprise 5G connectivity addresses these challenges with a unified, interoperable architecture designed for clinical mobility, real-time data exchange, and scalable digital health services.

Ericsson delivers a comprehensive healthcare connectivity portfolio—extending public 5G coverage, private 5G, and Wireless WAN (WWAN)—to connect clinicians and patients wherever care is delivered.

Why this matters

Connectivity must deliver the same performance, security, and control—everywhere care happens—so clinicians can access data in real time and make faster, more informed decisions.

Top technology and connectivity trends reshaping the healthcare sector

Healthcare is becoming more distributed, data-driven, and dependent on real-time performance—driving the need for a new connectivity foundation.

Distributed care delivery

Care is increasingly delivered across hospitals, clinics, and patient homes. This shift requires seamless, secure connectivity that extends beyond fixed locations to support consistent care experiences—leveraging managed cellular connectivity to maintain performance, security and control across environments.

Real-time, data-intensive applications

Clinical workflows increasingly depend on low-latency, high-performance data exchange. Network performance increasingly impacts clinical decision-making and patient outcomes.

Growth of connected medical devices

Expanding device volumes demand scalable, secure, and prioritized network support — including devices tethered through cellular gateways and user equipment, requiring consistent wireless performance across clinical environments.

Mobility-driven clinical workflows

Ubiquitous, high quality connectivity is critical to enabling efficient, mobile first workflows within complex healthcare facilities and across care locations.

AI and data-driven care

Artificial intelligence and advanced analytics are transforming diagnostics, treatment planning, and operations. These innovations depend on continuous, high-quality data flows supported by robust network performance. These workloads make network performance a clinical dependency—not just an IT consideration.

Interoperable digital health ecosystems

Healthcare organizations are integrating across systems, partners, and platforms to deliver more coordinated care. This requires connectivity solutions that are scalable, interoperable, and capable of supporting multi-operator environments.

Security and network control

As cyber threats increase, healthcare providers must ensure the confidentiality, integrity, and availability of sensitive data. Dedicated, controllable network infrastructure is essential to maintaining trust, ensuring compliance, and supporting mission-critical clinical workflows.

Infrastructure efficiency and simplification

Unified connectivity approaches can streamline operations while improving performance and scalability — particularly when healthcare organizations maintain architectural consistency across on campus and distributed sites.

Indoor coverage and capacity demands

Complex healthcare facilities present significant connectivity challenges. Consistent, high-quality indoor coverage is critical to supporting both clinical communications and connected technologies.

Resilience and business continuity

Healthcare operations depend on always-on connectivity. Network resilience, redundancy, and rapid failover capabilities are essential to ensuring uninterrupted care delivery.

How 5G transforms healthcare delivery

In hospital clinical mobility

Eliminates coverage gaps that can disrupt care delivery

Reliable indoor 4G/5G/neutral host ensures staff communication, secure messaging, and connected medical carts remain consistent across complex hospital environments.

Specialty and research centers

Delivers predictable performance for advanced clinical and research applications

High bandwidth, deterministic wireless supports imaging workflows, robotics, real time guidance, and other performance critical systems.

Ambulatory clinics and ASCs

Enables rapid site activation without long lead times for wired connectivity

Cloud managed WAN over 5G/LTE connects distributed sites to EHR, imaging, telehealth, and scheduling systems without relying on wired circuits.

Hospital at home and remote monitoring

Reduces reliance on unmanaged home Wi-Fi networks

Secure, managed cellular uplinks ensure real time patient data transmission without requiring complex home networking.

EMS, transport and mobile care units

Improves coordination between field teams and hospital staff

Vehicle based 5G WAN enables real time telemetry, video consults, routing, and data transfer from the field to ED teams.

Pop up, overflow and disaster response sites

Supports continuity of care during peak demand and emergency situations

Rapid deploy 5G connectivity enables immediate activation of temporary care environments.

Best fit connectivity across the care continuum

Healthcare environments have diverse and evolving connectivity requirements—from high-density hospital campuses to distributed clinics, mobile units, and patient homes. No single network approach can address every need.

Ericsson delivers a modular, best-fit connectivity portfolio that enables healthcare providers to deploy the right solution for each environment—while maintaining a unified architecture across the entire system.

Ericsson Neutral Host

Best for: Large hospitals and medical campuses requiring seamless indoor coverage across all mobile operators. This ensures consistent clinical mobility, eliminates coverage gaps, and provides the capacity required for dense environments with thousands of users and devices. By simplifying indoor connectivity, Neutral Host reduces infrastructure duplication while improving user experience for staff, patients, and visitors.

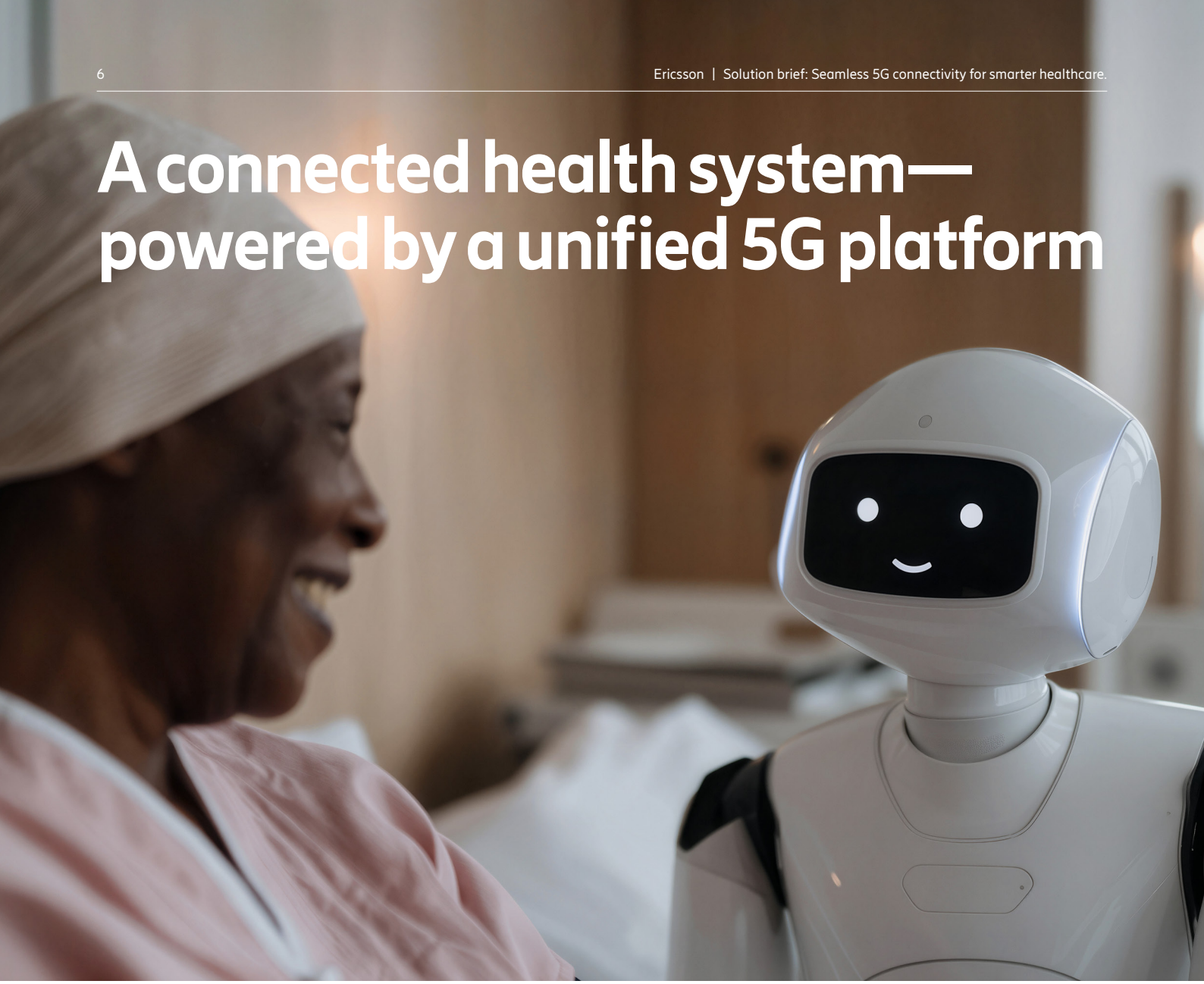
Ericsson Private 5G (with on premises edge computing)

Best for: Mission-critical, latency-sensitive healthcare applications requiring full network control. Designed for mission-critical and latency-sensitive healthcare applications, Private 5G enables deterministic performance for use cases such as medical imaging transfer, robotics, AR/VR-assisted procedures, and AI data collection required for advanced clinical applications. Integrated edge computing supports local data processing, helping meet data sovereignty, security, and latency requirements.

Wireless WAN (WWAN)

Best for: Distributed clinics, ambulatory centers, labs, mobile units, and temporary care environments. Leveraging 5G/LTE, WWAN reduces reliance on fixed-line infrastructure and accelerates site deployment. Centrally managed and integrated with SD-WAN and zero trust security frameworks, it ensures consistent performance, visibility, and control across all remote endpoints.

A connected health system—powered by a unified 5G platform



With Ericsson's portfolio, health systems can modernize in phases—stabilizing indoor mobility first, extending connectivity across distributed care locations next, and ultimately unifying all environments under a single architecture.

The result: seamless clinical workflows, secure data movement, and consistent experiences everywhere care is delivered.

Healthcare organizations worldwide use Ericsson's connectivity solutions to support clinical mobility, secure data exchange, and next-generation digital health services.

Take the next step

Discover how leading healthcare organizations are modernizing connectivity across hospitals, clinics, and extended care environments with a phased 5G strategy.

Explore the solution:
ericsson.com/healthcare

Have a specific use case or environment in mind?

Talk to a healthcare connectivity expert

About Ericsson

Ericsson enables communications service providers and enterprises to capture the full value of connectivity. The company's portfolio spans the following business areas: Networks, Cloud Software and Services, Enterprise Wireless Solutions, Global Communications Platform, and Technologies and New Businesses. It is designed to help our customers go digital, increase efficiency and find new revenue streams. Ericsson's innovative investments have delivered the benefits of mobility and mobile broadband to billions of people globally. Ericsson stock is listed on Nasdaq Stockholm and on Nasdaq New York.

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