



# **ERA<sup>®</sup> DAS**

THE ALL-DIGITAL WIRELESS SOLUTION  
TRANSFORMING HEALTHCARE CONNECTIVITY

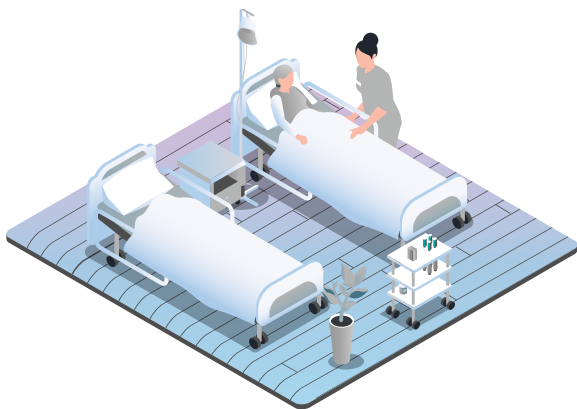
# HEALTHCARE DEPENDS ON LIFE-CRITICAL CONNECTIVITY

Every moment in a hospital depends on instantaneous, life-critical communication.

Clinicians must reach each other without delay; alarms, telemetry, imaging, and alerts must move with absolute reliability. Patients and families expect seamless communication at every touch point. Behind the scenes, sensors, automation, and clinical systems rely on uninterrupted mobility to maintain safety and care quality.

Reliable room-to-room cellular coverage is now clinical infrastructure—every bit as essential as oxygen, power, and medical gas.

## Why connectivity matters for patient safety & care delivery



### Patient safety

Reliable 5G connectivity enables alarms, alerts, telemetry, nurse-call messages, and care-team communications to reach clinicians instantly. Consistent coverage in ORs, ICUs, imaging, and isolation areas reduces delays and supports faster, safer interventions.



### Staff satisfaction & well-being

Clinicians experience fewer dropped calls, smoother handoffs, and more efficient coordination—reducing frustration, burnout, and workflow friction.

## ERA<sup>®</sup> DAS performance in hard-to-reach areas

The ERA DAS is engineered to enable 4G/5G in the hardest-to-reach areas of the hospital. Its digital transport and flexible, distributed access-node design deliver reliable coverage where traditional Wi-Fi and legacy DAS struggle—including lead-lined imaging rooms, procedural spaces, below grade areas, and structured parking.

Reliable connectivity across the hospital strengthens safety, reduces delays, and improves overall operational performance.



# 5G USE CASES FOR HEALTHCARE

## Connected care delivery & clinical mobility 5G-enabled workflows supporting safer, more efficient care

Hospitals depend on mobile workflows requiring high bandwidth, low latency, and reliable handoffs:

- High-resolution imaging to handhelds
- Clinician voice, messaging, alarms, and alerts with seamless mobility
- Smart carts and roaming EHR workflows
- In-room and roaming telehealth
- Wireless pump data, telemetry, and critical notifications
- AR-guided procedures, AI-assisted rounding, and ambient documentation

The ERA all-digital DAS preserves signal integrity end-to-end, providing consistent mobility and real-time performance across the entire campus—supporting the workflows that keep patients safe and clinicians productive.

## Patient experience & throughput 5G enhances every step of the patient journey

Hospitals rely on mobility and digital tools to improve patient flow and engagement:

- In-room virtual rounding and consults
- AR wayfinding and intuitive digital navigation
- Digital engagement that offloads guest traffic from Wi-Fi
- Real-time scheduling updates and mobile imaging access

Reliable connectivity improves HCAHPS scores, reduces delays, and enhances the overall patient experience.

## Hospital operations, safety & facilities reliable 5G supporting automation, safety, and efficiency

A rising ecosystem of mobile and connected systems depends on room-to-room coverage:

- Autonomous Mobile Robots (AMRs)
- Staff duress and safety alert systems
- Campus-wide emergency communication and coordination
- Digital twins and predictive maintenance workflows

These systems must function everywhere—including shielded, below-grade, or remote areas.





## Why legacy solutions fall short

Legacy analog DAS, RF-fed DAS, Wi-Fi-only designs, and standalone private networks were not built to support the complete set of modern clinical and operational demands across a hospital campus:

- 5G performance (bandwidth, low latency, device density)
- Real-time clinical mobility with seamless, deterministic handoffs
- High-density IoT across inpatient, procedural, and support areas
- Automation and robotics requiring predictable, campus-wide coverage
- Neutral-host, all-operator support
- On-premises or off-premises (centralized) operator integration
- Performance in shielded or complex environments
- Reduced power, cooling, and environmental impact

Wi-Fi and private networks both play important roles, but neither alone can deliver the reliability, multi-operator coverage, and clinical mobility hospitals require. Modern healthcare needs a digital, 5G-native DAS engineered for safety, reliability, and growth—working in concert with other wireless solutions.



## What makes the ERA platform different

- All-digital O-RAN + CPRI architecture
- True neutral-host for all carriers
- Designed for clinical and below-grade environments
- 50%+ lower power and cooling
- IT-aligned, software-driven operations
- Flexible access-node placement for any clinical space

## Wi-Fi, private networks, and the ERA platform: how they work together



**Wi-Fi** supports hospital-owned devices and high-throughput workflows; Wi-Fi calling helps but cannot replace multi-operator mobility or deterministic coverage for clinical communication.



**Private Networks** enable localized wireless applications but do not provide a universal neutral-host layer.



**The ERA platform** delivers campus-wide, multi-operator 4G/5G coverage for clinicians, staff, patients, and visitors

**Together, these technologies form a resilient, multi-layer wireless foundation for modern healthcare.**

## Introducing the ERA digital, 5G-native DAS for healthcare

The ERA digital platform delivers consistent, campus-wide 4G/5G connectivity through a fully digital architecture that transports signals over fiber or CAT cabling and distributes them through low-profile antennas across the hospital.

Aligned with modern O-RAN and CPRI interfaces, the ERA system seamlessly integrates with both on-premises and off-premises operator deployments, reducing the need for large RF rooms and simplifying multi-operator coordination.

The ERA solution provides reliable coverage in ORs, ED, ICUs, imaging suites, patient rooms, tunnels, stairwells, and other challenging clinical environments.

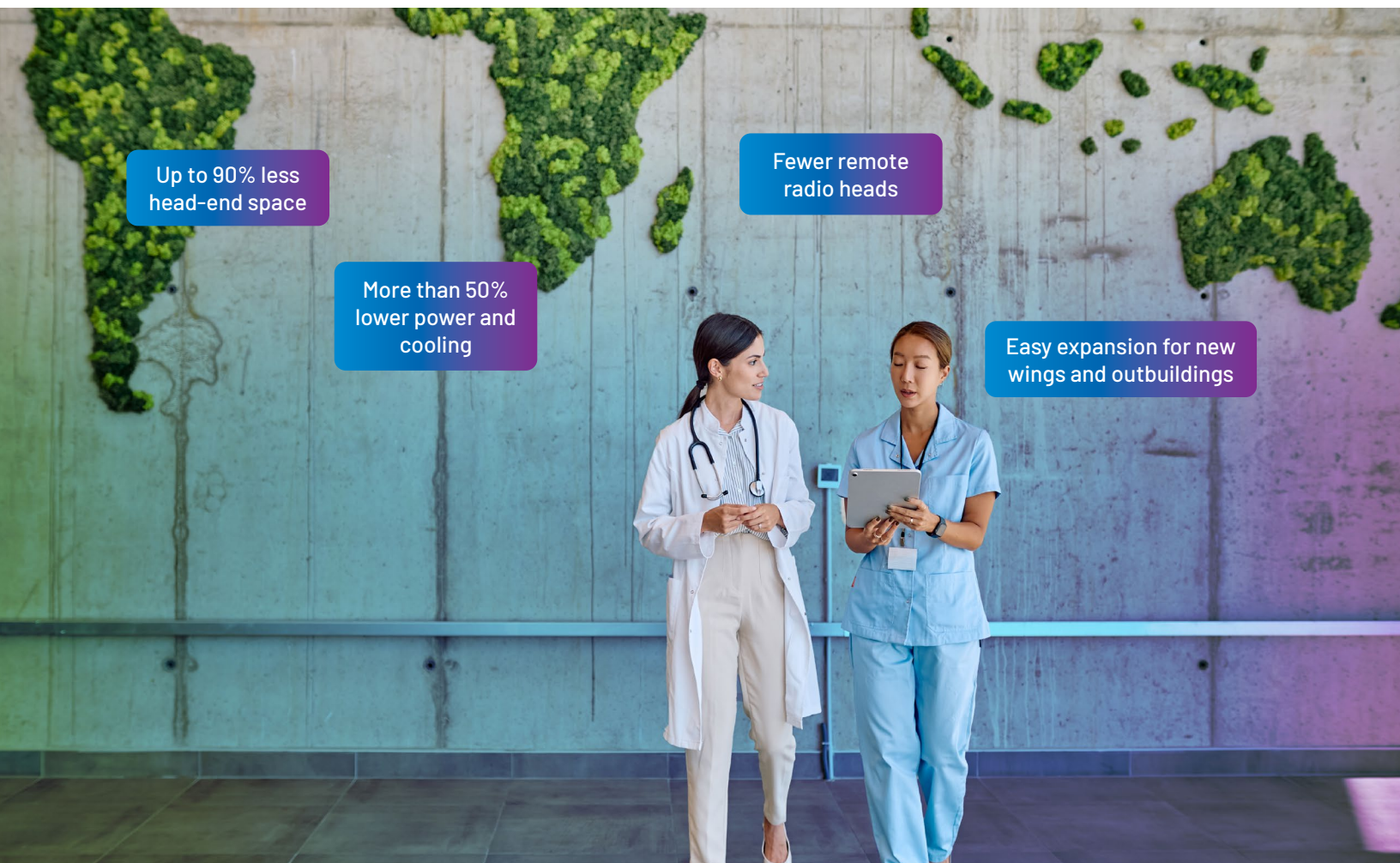


### Sustainable and adaptable

The ERA DAS reduces head-end footprint and power consumption while enabling flexible access-node placement throughout clinical spaces.

### Neutral-host support

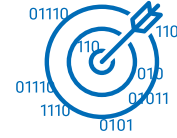
The ERA platform supports all mobile network operators simultaneously, enabling universal connectivity for clinicians, staff, patients, and visitors.





## SCALABLE FLEXIBILITY

- All-digital, IT-aligned DAS that scales across hospitals and multi-building campuses
- One platform for public cellular, private networks, IoT, and public safety
- True neutral-host architecture with modular expansion
- Built to support new operators, new bands, and new technologies as they emerge



## DIGITAL PERFORMANCE

- O-RAN + CPRI interfaces simplify operator onboarding
- End-to-end digital architecture improves reliability and mobility
- Consistent, low-latency 5G performance for clinical workflows



## OPTIMIZED OPERATIONS

- Software-driven deployment with automated configuration
- Centralized visibility, monitoring, and diagnostics
- Robust cybersecurity — delivers secure, resilient, and compliant network operations
- Faster deployment with minimal clinical disruption — ideal for renovations, expansions, and phased construction



## SUSTAINABLE INNOVATION

- Up to 90% less head-end space and 50%+ lower energy/cooling use
- Lower cabling and material footprint
- Open, software-defined architecture aligned with O-RAN evolution



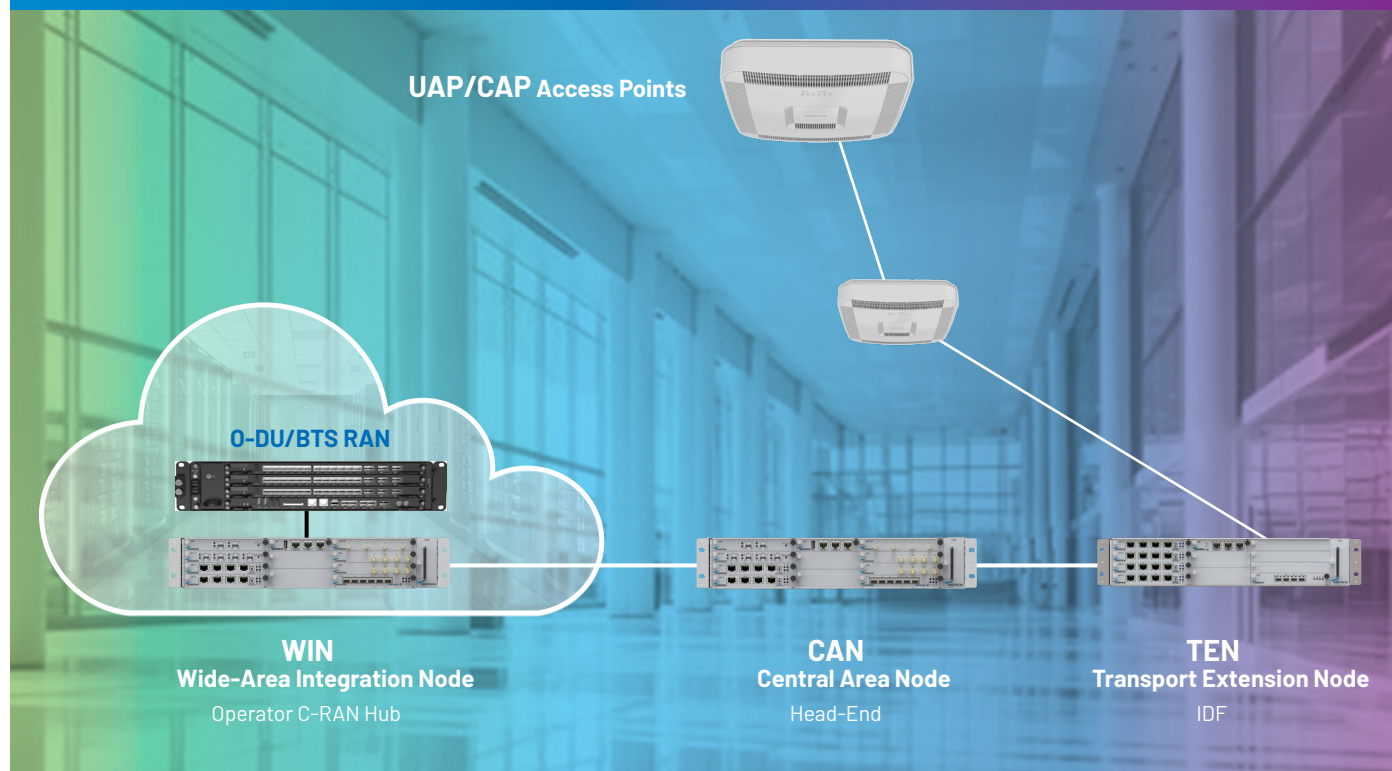
## Trusted in complex healthcare environments

ERA DAS is deployed across hospitals and medical centers worldwide, supporting:

- Critical care units
- Surgical and procedural suites
- Academic medical centers and teaching hospitals
- Children's hospitals and pediatric specialty centers
- Community and regional hospitals
- Level I-III trauma centers
- Large, multi-building campus environments
- Specialty, oncology, and research facilities



# ERA DAS COMPONENTS — COMPACT, EFFICIENT, READY FOR GROWTH



## Wide-Area Integration Node (WIN)

Provides MNO integration for distributed or remote buildings.

## Centralized Access Node (CAN)

Connects to mobile operators via digital O-RAN or CPRI interfaces; digitizes and distributes baseband signals over fiber or CAT cabling.

## Transport Extension Nodes (TEN)

Extend digital transport through large or complex facilities without signal degradation or added infrastructure.

## Access Points (APs)

Low-, mid-, and high-power UAP and CAP models convert digital signals to RF for over-the-air delivery, supporting diverse clinical layouts and multi-band operation.

## AIMOS Management Software

Provides centralized visibility, automated configuration, and fault management, and integrates with third-party systems to streamline operations.



## Empowering hospitals with a future-ready digital infrastructure

The ERA digital platform enables hospitals to modernize with confidence. Its 5G-native, all-digital architecture strengthens mission-critical connectivity while preparing health systems for the next decade of care delivery—from AI-enabled workflows to campus-wide automation and future RAN evolution.

With the ERA platform, hospitals gain:

- Safer environments for patients and staff through reliable, room-to-room mobility
- Improved staff satisfaction with fewer dropped calls and smoother workflows
- Higher throughput and predictable patient flow supported by consistent connectivity
- Universal 4G/5G coverage for all carriers on a true neutral-host foundation
- Lower power, cooling, space, and lifecycle cost
- A scalable platform that expands easily as facilities grow

The ERA all-digital platform is more than a DAS.

It is the foundation for a connected, safe, efficient, and future-ready hospital—engineered by ANDREW®.

Since 1937, ANDREW, an Amphenol company, has driven the evolution of wireless technology. Trusted by mobile network operators and enterprises globally, we work closely with our customers to deliver innovative solutions that enhance connectivity experiences both outdoors and indoors. Our dedicated global team is committed to advancing the industry, fueled by the vision that a better-connected future is possible.



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