



ERA[®] DAS

THE ALL-DIGITAL IN-BUILDING CELLULAR SOLUTION FOR
HYPERSCALE, COLOCATION AND ENTERPRISE DATA CENTERS

THE STADIUM IS NOW A NEIGHBORHOOD — AND IT NEVER STOPS NEEDING A SIGNAL.

A data center is engineered to keep the outside out. Poured concrete, structural steel, EMI shielding, no windows by design, whole halls below grade — everything about the building is built to protect what is inside it, and all of it stops a cellular signal at the door. The compute, storage and networking run on infrastructure the operator owns and controls. The people do not. Technicians, security, vendors and first responders move through the building on their own phones, on carriers the operator does not run — and in a data hall, on a loading dock, or three levels down, those phones have nothing to reach.

That is a safety problem before it is a convenience one. A lone technician in a hot aisle has to be able to call for help. A contractor has to reach the operations center. An emergency call has to tell a responder which part of a million square feet the caller is standing in. Reliable cellular coverage is now facility infrastructure — as fundamental as power and cooling, and held to the same standard: everywhere, every time.

ERA® DAS is not a future concept. It is deployed and operating at scale today, backed by a decade of real-world digital deployments.

ERA DAS performance in hard-to-reach areas

The ERA DAS is engineered to perform in the parts of a data center where signal normally dies — which are the parts the building works hardest to seal:

- Data halls and white space, wall-to-wall with racks and steel
- Loading docks, staging and back-of-house
- Below-grade levels, electrical rooms and battery/UPS spaces
- Generator yards, fuel farms and outdoor plant
- Meet-me rooms, cages and secure suites
- Hyperscale campuses measured in millions of square feet



Why connectivity matters for uptime, safety & operations



Staff and technician safety

The people who keep a data center running work alone, around high voltage and high heat, in spaces built to block a signal. Reliable coverage is what lets a lone worker call for help, a duress alert get out, and an emergency call tell a responder exactly where the caller is — in the hall, on the level, at the rack.



Uptime and incident response

When something goes wrong, minutes matter. Technicians, vendors and on-call engineers coordinate across the floor, down the levels and out to the plant — and coverage that drops at the worst moment turns a fast fix into a long one. Consistent connectivity everywhere is what keeps a response moving.



Security across a large footprint

A data center is organized around who gets in and where. The guard force, escorts and contractors coordinate across a footprint measured in acres, on their own phones, on whatever carrier they use — and the perimeter, the docks and the yards need coverage as much as the halls do.

KEEPING THE FACILITY RUNNING

5G-enabled mobility for the people who run the site

Uptime is a human achievement, and the people behind it depend on coverage the building fights:

- Technician and vendor mobility across the floor, on any carrier
- Incident response and on-call coordination without dropped calls
- Push-to-talk over cellular, replacing legacy two-way radio
- Guided repair and remote-expert video from the rack
- Out-of-band access to DCIM, tickets and runbooks on connected devices
- Uninterrupted coverage from the hottest aisle to the lowest level

The ERA® DAS preserves signal fidelity end-to-end, so the people who keep the facility up can reach each other everywhere in it — from the hottest aisle to the lowest level.

SAFETY IN A BUILDING BUILT TO KEEP THE WORLD OUT

Reliable 5G supporting worker safety and emergency response

A hardened building becomes a safety problem the moment a signal cannot reach a person:

- Lone-worker and man-down protection in data halls and plant rooms
- E911 with accurate location across millions of square feet
- Wireless Emergency Alerts to every phone on site
- Mass notification for fire, electrical and evacuation events
- Public-safety communications for responders, below grade included
- Duress and check-in for staff working alone or after hours

In a building designed to keep the world out, safety depends on a signal that still gets in.

SECURITY, ACCESS & THE SMART FACILITY

Reliable 5G supporting security, automation, and efficiency

A growing ecosystem of mobile and connected systems depends on coverage everywhere a person can go:

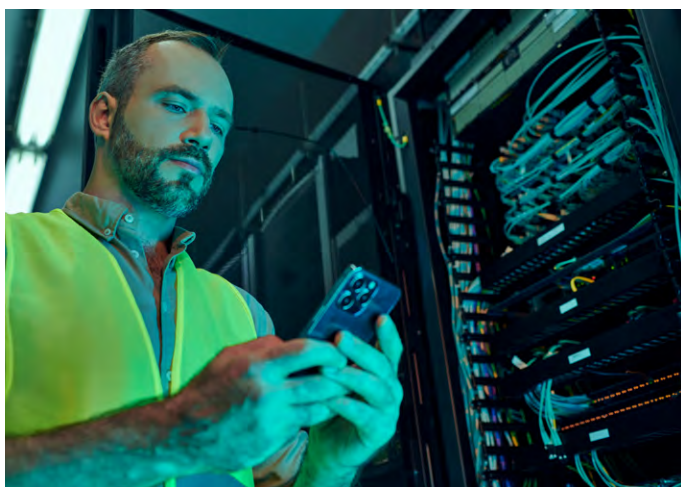
- Guard force and mobile security coordination across the campus
- Contractor, vendor and visitor escort and access coordination
- Private-5G for autonomous inventory and inspection robots
- Cellular-IoT for generator yards, fuel farms and outdoor plant
- Body-worn and mobile security cameras over cellular
- Connected logistics and delivery across a multi-building site

These systems have to work everywhere a person can go — including the levels below grade and the yards beyond the fence.



WHY 5G DOESN'T REACH INSIDE

Here is the problem: the macro network was built to cover ground, not to get through it. A data center is the extreme case — poured concrete, structural steel, EMI shielding, no windows by design, and hall after hall of racks that stop a signal a hundred rows deep. A strong signal in the parking lot is nothing by the second row of the first hall. Adding towers outside does not fix it, because the building was built, on purpose, to keep the outside out.



WHAT A DAS IS

A distributed antenna system brings the mobile operators' networks inside and distributes them through the building. Signal arrives at a headend, travels the site over fiber or CAT cabling, and is radiated by antennas placed where people actually are. One shared system carries every operator at once — so a technician on one carrier and a contractor on another get the same coverage from the same infrastructure. It is a purpose-built system designed to deliver consistent mobile coverage and capacity throughout the building.

YOU NEED BOTH WI-FI AND DAS

Every data center has networks — production, out-of-band, corporate, building — and they are among the most controlled networks anywhere, locked down on purpose. None of them is the cellular network in a technician's pocket, and none of them is what a phone reaches for first. Every person on the floor — staff, vendor, contractor, inspector, responder — is carrying a device looking for a carrier the operator does not run, in a building engineered to block it.

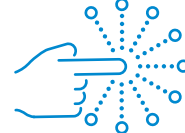
Wi-Fi calling does not close the gap. It has to be switched on, and it only works once someone is already on a Wi-Fi network — which a contractor badged in for a four-hour job, a driver at the dock, or a responder arriving to an alarm are not, and often are

not permitted to be. It hands off poorly at the door. And it does not carry what a cellular network carries: E911 that knows where the caller actually is rather than where the account is registered, wireless emergency alerts to every device in a building, or public-safety communications. A DAS is how the cellular network itself gets inside — every phone, every carrier, automatically, with nothing to switch on.

The two do different jobs. Wi-Fi is the network you run for the systems you own. A DAS is how the operators' networks reach the people who keep the site running — on their own phones, on whatever carrier they use, in the same hall, on the same infrastructure. A data center needs both.

Every DAS brings cellular indoors.

ERA® DAS is built on four things most cannot claim.



ONE PLATFORM

Any venue. Any operator. Any technology.

One infrastructure supports public cellular, private networks and public safety across a single facility or an entire campus – from pre-4G through 5G.

Local. Campus. Cloud-RAN.

Deploy in one hall, across a hyperscale campus, or centralized remotely, with low-, medium- and high-power radios matched to data halls, plant rooms, docks, yards and offices.

ALL DIGITAL

Digital connectivity. Today. Evolvable.

An industry first: only the ERA platform digitally connects all major RAN vendors to DAS, simplifying operator connectivity.

No analog RF. Anywhere.

Direct digital connectivity eliminates radio heads, POI systems and RF combining in the headend, reducing equipment and infrastructure in space- and power-constrained facilities.

Performance that's measured.

Up to 30% higher signal quality and throughput and up to 98% lower latency in live, high-density deployments.

Smaller. Cooler. Greener.

Up to 90% less headend space and up to 55% lower power and cooling – in a building that meters every watt.



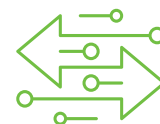
SOFTWARE-DEFINED OPERATIONS

Simple to deploy. Intelligent to operate.

Zero-touch configuration, software-defined routing, real-time visibility and built-in security simplify deployment with minimal disruption to a live, uptime-critical facility.

Lower CAPEX. Lower OPEX.

Fewer RF components, software-based expansion and fewer site visits make it easier to support growth and changing capacity needs.



PROVEN AT SCALE

Proven. Not promised.

All-digital ERA DAS, operating at scale today across hyperscale, colocation and enterprise facilities.

Digital since 2014.

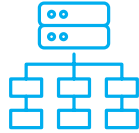
More than a decade of digital DAS innovation, and still advancing.

TRUSTED IN DEMANDING DATA CENTER ENVIRONMENTS

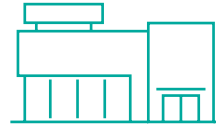
ERA®DAS is deployed across mission-critical facilities worldwide, supporting:



Hyperscale and cloud campuses



Colocation and multi-tenant facilities



Enterprise and on-premise data centers



AI and high-density compute halls



Edge and micro data centers



Mission-critical and government facilities



Multi-building data center campuses

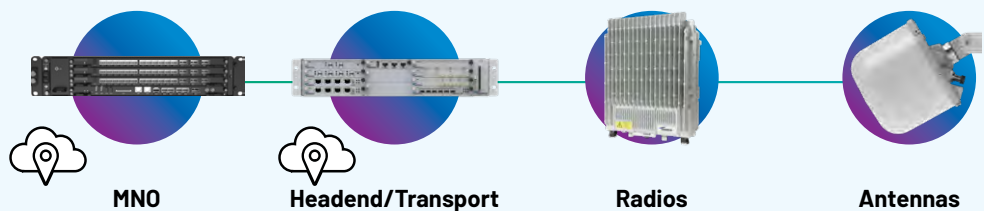
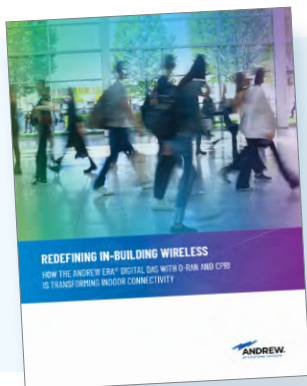
Cover the people who keep it running

A data center is measured on uptime, and uptime is a human achievement — the technicians, engineers, security teams and responders who keep the building running are the ones the building is hardest on to reach. The ERA digital platform gives them coverage everywhere the facility sends them — on every carrier, on their own phones, with nothing to join and nothing to notice — while adding almost nothing to the space, power and cooling the facility fights for every day.

With the ERA platform, venue and district owners gain:

- Reliable coverage for staff, vendors and responders across every hall and level
- Worker safety and E911 location in a building engineered to block a signal
- Faster incident response through coordination that does not drop
- Universal 4G/5G coverage for all carriers on a true neutral-host foundation
- The lowest space, power and cooling footprint of any DAS — where it matters most
- A scalable platform that grows with the campus

The ERA all-digital platform is more than a DAS. It is the coverage layer for the people who keep a data center running — engineered by ANDREW®.



For the full architecture, see the [ERA DAS capabilities brochure](#).



Every operator,
on one system

Lower CAPEX and OPEX, from
install through operation

Less power and cooling,
with performance you
can measure

Reliable coverage from the data hall
to the below-grade utility spaces

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.



[ANDREW.COM](https://www.andrew.com)

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