

SERVICE SPECIFICATION / NETWORKS AND WIRELESS

Distributed antenna systems and ERRCS

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A distributed antenna system carries radio signals through a building or campus.

Intended outcome

Coverage maps and commissioning results tied to the correct radio service, frequencies, headend, distribution, alarms, authority, and carrier dependencies.

Service scope

DAS is a distributed RF infrastructure of signal sources, distribution components and antennas. Passive, active and hybrid architectures have different reach, power, fiber, coaxial cable, space and monitoring needs.

ERRCS requirements are jurisdiction- and project-specific. The fire code official, radio-system owner and other authorities determine applicable criteria and acceptance. A commercial cellular design does not automatically satisfy public-safety requirements.

How the system fits together

01 RF source	Carrier signal, donor source, base station or public-safety radio system
02 Headend	Filtering, amplification, control and monitoring equipment
03 Distribution	Fiber, coaxial cable, remote units and splitters/taps
04 Antenna layer	Planned in-building or campus coverage zones

Typical project triggers

- Interior cellular service is unreliable or capacity-limited
- A project review identifies public-safety radio coverage requirements
- Large, below-grade, shielded or high-occupancy spaces are planned
- An existing booster/DAS lacks current test and monitoring records



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Delivery and acceptance

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The final project scope identifies quantities, locations, dependencies, and the evidence required at each delivery stage.

01 Authority and use case

Identify radio systems, service goals, jurisdiction, stakeholders and acceptance authority.

Acceptance evidence: Requirements/authority matrix and meeting record

02 RF and infrastructure design

Survey/model coverage; define source, frequencies, antennas, distribution, pathways, power and monitoring.

Acceptance evidence: RF basis, floor design and coordinated infrastructure schedule

03 Provider/AHJ coordination

Obtain required carrier, frequency-owner, permit and authority reviews before activation.

Acceptance evidence: Review comments, approvals and responsibility log

04 Commission and document

Test the agreed grid/areas, alarms and operating conditions with required witnesses.

Acceptance evidence: Commissioning report, test maps, alarm results and as-builts

Handover deliverables

- RF survey/design basis and coverage maps
- Headend, pathway, antenna and riser plans
- Stakeholder/authority responsibility matrix
- Commissioning and alarm-test records
- As-built RF infrastructure and equipment schedule

Closeout: GHT and the customer review the agreed evidence, record unresolved exceptions and owners, and confirm acceptance against the signed project scope.



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Planning and scope boundaries

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Customer and site inputs

- Building plans, materials and below-grade areas
- Required radio services, bands and performance criteria
- Carrier, radio-owner and AHJ contacts
- Headend, riser, pathway, power and monitoring locations
- Test grid, witness, permit and closeout requirements

Constraints and coordination

- Carrier and radio-system-owner authorization
- Jurisdiction-specific code and AHJ interpretation
- RF interference, isolation and donor-signal conditions
- Pathway, fire-resistance, power and monitoring dependencies

Commercial scope and responsibilities

This specification describes the service framework. The signed statement of work defines included equipment, quantities, software licenses, integrations, access windows, schedule, pricing, warranty, and support coverage. Additional construction, electrical work, recurring subscriptions, and ongoing support require an explicit line item.

The customer appoints an acceptance owner and provides authorized access, required site information, and decisions. GHT records assumptions, coordinates assigned work, and submits changes for agreement before expanding the scope.

Technical references

BICSI — ANSI/BICSI 006-2026: Distributed Antenna Systems | Source review: 2026-08-20

Federal Communications Commission — FCC 13-21: Signal Booster Rules | Source review: 2026-08-20

BICSI — BICSI Library of ICT Manuals and Standards | Source review: 2026-08-20

Service guide and project discussion | Source review: 2026-09-06