

SERVICE SPECIFICATION / NETWORKS AND WIRELESS

Private 5G and CBRS

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Private LTE or 5G combines compatible devices, SIM or eSIM identities, radios, transport, and a mobile core; many US deployments use CBRS spectrum under FCC Part 96.

Intended outcome

A measured pilot or production network with confirmed device and band compatibility, spectrum records, traffic paths, configuration, and support procedures.

Service scope

A private cellular network normally includes radio units, antennas, transport, a cellular core, subscriber identity management and integration to enterprise or operational networks. It is not simply a different kind of access point.

CBRS uses a three-tier shared-spectrum model coordinated by a Spectrum Access System. Device registration, location, operating parameters and possible channel changes are part of normal operation and must be designed into monitoring and support.

How the system fits together

01 Subscriber device	Band-compatible modem with provisioned SIM or eSIM identity
02 Radio access	CBSD/radio and antennas providing planned RF coverage
03 Mobile core	Authentication, sessions, mobility and traffic policy
04 Enterprise boundary	Controlled paths to applications, internet, IT or OT networks

Typical project triggers

- Wide-area mobile devices outgrow existing Wi-Fi behavior
- Deterministic identity and SIM/eSIM lifecycle are useful
- Outdoor, yard or industrial coverage needs managed mobility
- A neutral-host or carrier alternative is being evaluated



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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 Use-case proof

Define devices, mobility, traffic, latency, coverage, identity and operational consequence.

Acceptance evidence: Use-case scorecard and device/band compatibility matrix

02 RF/core architecture

Design radios, antennas, transport, cellular core, subscriber identities and network boundaries.

Acceptance evidence: RF prediction, logical architecture and data-flow map

03 Spectrum and pilot

Coordinate compliant devices and SAS operation, stage a limited area, and validate real clients.

Acceptance evidence: Registration records, pilot log and measured coverage/service results

04 Operational handoff

Finalize monitoring, identity lifecycle, channel-event response, support and change ownership.

Acceptance evidence: Runbook, inventory, configuration backup and acceptance report

Handover deliverables

- Use-case and device-compatibility matrix
- RF and radio/core architecture
- Subscriber identity and network-policy design
- Pilot coverage/application test report
- Spectrum, inventory, monitoring and operations runbook

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



Planning and scope boundaries

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Customer and site inputs

- Use cases, client count, mobility and application behavior
- Device modem, band, SIM/eSIM and certification support
- Coverage area, construction and interference environment
- Core location, backhaul, addressing and security boundaries
- SAS, spectrum tier, monitoring and operations model

Constraints and coordination

- Device and band compatibility
- FCC Part 96 and SAS operating conditions
- Core/backhaul availability and integration
- Specialized monitoring, identity and radio support skills

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

Electronic Code of Federal Regulations — 47 CFR Part 96: Citizens Broadband Radio Service | Source review: 2026-08-20

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

Cybersecurity and Infrastructure Security Agency — Enhanced Visibility and Hardening Guidance for Communications Infrastructure | Source review: 2026-08-20

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