

SERVICE SPECIFICATION / NETWORKS AND WIRELESS

Outdoor and point-to-point wireless

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Outdoor wireless extends network service to remote buildings, cameras, gates, and equipment.

Intended outcome

A weather-ready radio link with a path profile, link budget, alignment and performance baseline, endpoint records, and a maintenance plan.

Service scope

A fixed wireless link depends on more than visual line of sight. Frequency, path length, Fresnel-zone clearance, terrain, foliage, structures, interference, antenna gain, mounting stability and legal operating limits affect the link budget.

The radio system also depends on cable entry, surge and bonding coordination, local power, network segmentation, enclosure/environment ratings, safe access and a recovery method if alignment or hardware fails.

How the system fits together

01 Network endpoint A	Switching, power, policy and physical cable entry
02 Radio path	Frequency, distance, Fresnel clearance and interference environment
03 Network endpoint B	Mount, radio, enclosure and local distribution
04 Service/fallback	Applications carried, monitoring, spares and alternate access

Typical project triggers

- A remote building or yard lacks a practical wired route
- Temporary construction or event connectivity is needed
- Outdoor cameras, gates or operational devices need coverage
- An existing bridge is unstable during weather or seasonal growth



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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 Path study

Confirm coordinates, elevations, obstructions, Fresnel clearance, spectrum and access at both ends.

Acceptance evidence: Path profile, site photos and feasibility/risk record

02 Link and site design

Calculate the link, select radios/antennas, mounts, power, cable entry and network policy.

Acceptance evidence: Link budget, mounting details and endpoint schedule

03 Install and align

Mount securely, weatherproof transitions, coordinate bonding/surge work and align to planned levels.

Acceptance evidence: Installation photos, alignment values and configuration record

04 Validate and baseline

Measure signal, noise, modulation, throughput and application behavior under agreed conditions.

Acceptance evidence: Link-health baseline, performance results and maintenance runbook

Handover deliverables

- Path profile and RF link budget
- Endpoint/mounting and cable-entry plan
- Frequency/configuration and network-policy record
- Alignment and performance baseline
- As-built photos, inventory and maintenance/recovery runbook

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

- Endpoint coordinates, heights and path distance
- Terrain, foliage, structures and seasonal obstruction
- Capacity, latency and application requirements
- Available spectrum and interference survey
- Mounting, structural, power, grounding and safe-access conditions

Constraints and coordination

- Fresnel obstruction, foliage and future construction
- Spectrum rules and changing interference
- Wind, water, temperature, lightning and mounting movement
- Safe roof/tower access, power and service restoration time

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

[IEEE 802.11 Working Group — About IEEE 802.11](#) | Source review: 2026-08-20

[Electronic Code of Federal Regulations — 47 CFR Part 15: Radio Frequency Devices](#) | 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