

SERVICE SPECIFICATION / PHYSICAL INFRASTRUCTURE

Telecommunications rooms, racks, grounding and power

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Racks, patching, network equipment, power, bonding, cooling, pathways, labels, and access, brought into one maintainable space.

Intended outcome

An organized room with usable rack space, traceable patching, verified power loads, and recorded electrical, cooling, and access dependencies.

Service scope

The telecommunications room is an infrastructure space, not simply a place to hang a switch. Its size, access, pathways, rack layout, bonding, dedicated power and cooling conditions affect every served link.

Electrical, mechanical, architectural and technology responsibilities overlap in this space. The technology design should state dependencies without assuming GHT owns work that belongs to a licensed or owner-designated trade.

How the system fits together

01 Entrance/pathways	Protected cable entry with serviceable transitions
02 Passive layer	Patch panels, enclosures and cable management
03 Active layer	Gateways, switches, controllers and uplinks
04 Facility support	Power, bonding, environment, access and monitoring dependencies

Typical project triggers

- Equipment is stacked, unsupported or blocked
- Patch cables cannot be traced or panels are unlabeled
- UPS load, runtime or receptacle ownership is unknown
- Heat, dust, water or shared storage threatens equipment



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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 Room audit

Inventory racks, panels, equipment, power, bonding, pathways, environment and access.

Acceptance evidence: Room elevation, asset list and condition photos

02 Layout

Assign rack units, cable management, service clearances, patching and growth space.

Acceptance evidence: Rack elevation and port/capacity plan

03 Coordinate dependencies

Identify electrical, bonding, HVAC, structural and security work by responsible trade.

Acceptance evidence: Dependency and responsibility schedule

04 Build and hand off

Install, label, patch, verify loads and document the final state.

Acceptance evidence: As-built elevation, labels, load record and closeout photos

Handover deliverables

- Room and rack elevation
- Equipment and patch-panel schedule
- Power/load and UPS record
- Dependency and exception register
- As-built photos and labeling map

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

- Room dimensions and access clearances
- Equipment list, depth, weight and rack units
- Circuit, receptacle, load and runtime information
- Pathway entry and cable quantities
- Bonding, cooling and access-control responsibility

Constraints and coordination

- Working clearance and safe access
- Electrical and bonding work by the appropriate trade
- Thermal load, airflow and environmental exposure
- Rack depth, weight, anchorage and pathway geometry

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

Telecommunications Industry Association — TIA-569: Telecommunications Pathways and Spaces | Source review: 2026-08-20

Telecommunications Industry Association — TR-42 Telecommunications Cabling Systems | Source review: 2026-08-20

BICSI — Telecommunications Distribution Methods Manual | Source review: 2026-08-20

ASHRAE — Data Center Resources | Source review: 2026-08-20

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