

SERVICE SPECIFICATION / PHYSICAL INFRASTRUCTURE

Pathways and containment

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Trays, conduit, sleeves, raceway, and supports carry communications cable while accounting for fill, bend radius, separation, firestopping, and access.

Intended outcome

A coordinated route plan with the pathway type, capacity, penetrations, responsibilities, and closeout photos recorded by segment.

Service scope

A pathway may be tray, basket, conduit, sleeves, raceway, J-hooks, underfloor space or a coordinated combination. Containment is selected for cable quantity, media, environment, accessibility and architectural conditions.

Pathway design is also a construction-coordination task. Penetrations, fire-resistance boundaries, structural attachments, ceiling access and trade ownership must be resolved before installation.

How the system fits together

01 Origin	Telecom room, entrance facility or equipment zone
02 Primary pathway	Tray, conduit or route carrying the main cable group
03 Transition	Sleeve, pull point, drop-out or change in pathway method
04 Destination support	Final protected route to the outlet, device or enclosure

Typical project triggers

- Ceilings are crowded or access is limited
- Existing supports are full, damaged or shared improperly
- A renovation crosses rated walls or occupied areas
- Future phases need reserved route capacity



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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 Route survey

Trace origin, destination, obstacles, ratings, access and existing pathway condition.

Acceptance evidence: Annotated route plan and obstruction photos

02 Capacity design

Estimate media count, size, bend needs, pulling access and growth allowance by segment.

Acceptance evidence: Segment schedule with pathway type and capacity basis

03 Trade coordination

Resolve attachment, penetration, firestop, lift, shutdown and restoration responsibilities.

Acceptance evidence: Coordination notes and responsibility matrix

04 Install and inspect

Verify support spacing, transitions, protection, identification and restored barriers.

Acceptance evidence: Inspection record, route photos and updated as-built

Handover deliverables

- Annotated route plan
- Pathway segment and penetration schedule
- Coordination/responsibility notes
- Installation inspection record
- Closeout photos and as-built route

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

- Scaled route and ceiling information
- Cable types, counts and outside diameters
- Fire-rated and security boundaries
- Structural attachment and trade constraints
- Known future phases and growth allowance

Constraints and coordination

- Pathway capacity and cable handling limits
- Fire-resistance and penetration restoration
- Structural attachment and seismic requirements where applicable
- Shared-ceiling congestion and safe access

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

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