



SERVICE SPECIFICATION / PHYSICAL INFRASTRUCTURE

Dark fiber and carrier demarcation

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Dark fiber provides a passive optical path; carrier demarcation pins down the port, strand, inside extension, optics, power, testing, and repair responsibilities on each side.

Intended outcome

An identified handoff with mapped strands and ports, compatible interfaces, baseline test results, and named support contacts.

Service scope

Dark fiber provides a passive path; the owner or service customer supplies compatible optics and accepts responsibility for the optical design within the contract boundary. Availability, route diversity and repair terms come from the actual agreement, not the phrase dark fiber.

The demarc may be a carrier enclosure, patch panel, network interface device or documented port. Power, rack space, entrance conduit, inside extension and cross-connect work must be assigned before the carrier arrives.

How the system fits together

01 Provider network	Carrier-owned route and transmission responsibility
02 Entrance facility	Building entry, protection and provider equipment space
03 Demarcation	Explicit port or panel where responsibility changes
04 Customer extension	Customer-owned fiber, optics, power and network beyond the handoff

Typical project triggers

- A new carrier service needs an inside extension
- Multiple carriers share an undocumented entrance room
- Dark-fiber strands or route diversity cannot be confirmed
- Trouble tickets stall at an unclear ownership boundary



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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 Read the service handoff

Confirm provider scope, demarc location, interface, strands, dates and customer dependencies.

Acceptance evidence: Responsibility matrix and service-handoff summary

02 Survey the entrance path

Verify conduit, building entry, room, rack, power, panels and inside extension route.

Acceptance evidence: Entrance-route photos and readiness checklist

03 Build and correlate

Install the customer-side extension or cross-connect and label every transition.

Acceptance evidence: Port/strand map and end-to-end label record

04 Test and turn up

Measure the agreed segment, preserve baseline results and record operational contacts.

Acceptance evidence: Test files, turn-up record and escalation/contact sheet

Handover deliverables

- Demarc and responsibility diagram
- Entrance/inside-extension readiness checklist
- Port, strand and cross-connect schedule
- Customer-side test baseline
- Turn-up, contact and escalation record

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

- Carrier order, scope and demarc definition
- Interface, connector, optics and strand requirements
- Entrance, riser and inside-extension route
- Rack, power, grounding and access readiness
- Support contacts, repair terms and diversity claims

Constraints and coordination

- Carrier schedule and provider-controlled work
- Building entrance rights and landlord coordination
- Interface and optical-budget compatibility
- Unverified physical diversity or shared conduit risk

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

Fiber Optic Association — [Fiber Optic Network Design](#) | Source review: 2026-08-20

Fiber Optic Association — [FOA-6a: Fiber Optic Cable Plants](#) | Source review: 2026-08-20

Telecommunications Industry Association — [TR-42 Telecommunications Cabling Systems](#) | Source review: 2026-08-20

[Service guide and project discussion](#) | Source review: 2026-09-06