Subsea–Terrestrial Integration

Bridging the Last Mile from Landing to Data Centres in Singapore

Subsea–Terrestrial Challenges in Singapore

The Missing Link in Singapore's Subsea Ecosystem

Singapore is a major regional subsea hub, handling high-volume international data traffic. While the country provides a regulated Common Duct Network (CDN), it does not deliver true end-to-end connectivity from the subsea landing to your data centre.

This creates a critical gap in the "last mile" of network connectivity — the final stretch that ensures traffic moves seamlessly from subsea cables into operational data centres.

Current gaps:

1. Beach Manhole (BMH) → CDN ingress
2. Through CDN
3. CDN egress → Cable Landing Station (CLS)
4. CLS → Data Centres

As a result:

- ✗ Multiple parties are required
- ✗ Responsibility is fragmented
- ✗ Timelines are misaligned
- ✗ Activation is delayed

No single party owns the full terrestrial integration. These challenges create **delays, operational risk, and complexity,** hindering seamless subsea-to-DC connectivity.

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BlueTel's End-to-End Integration

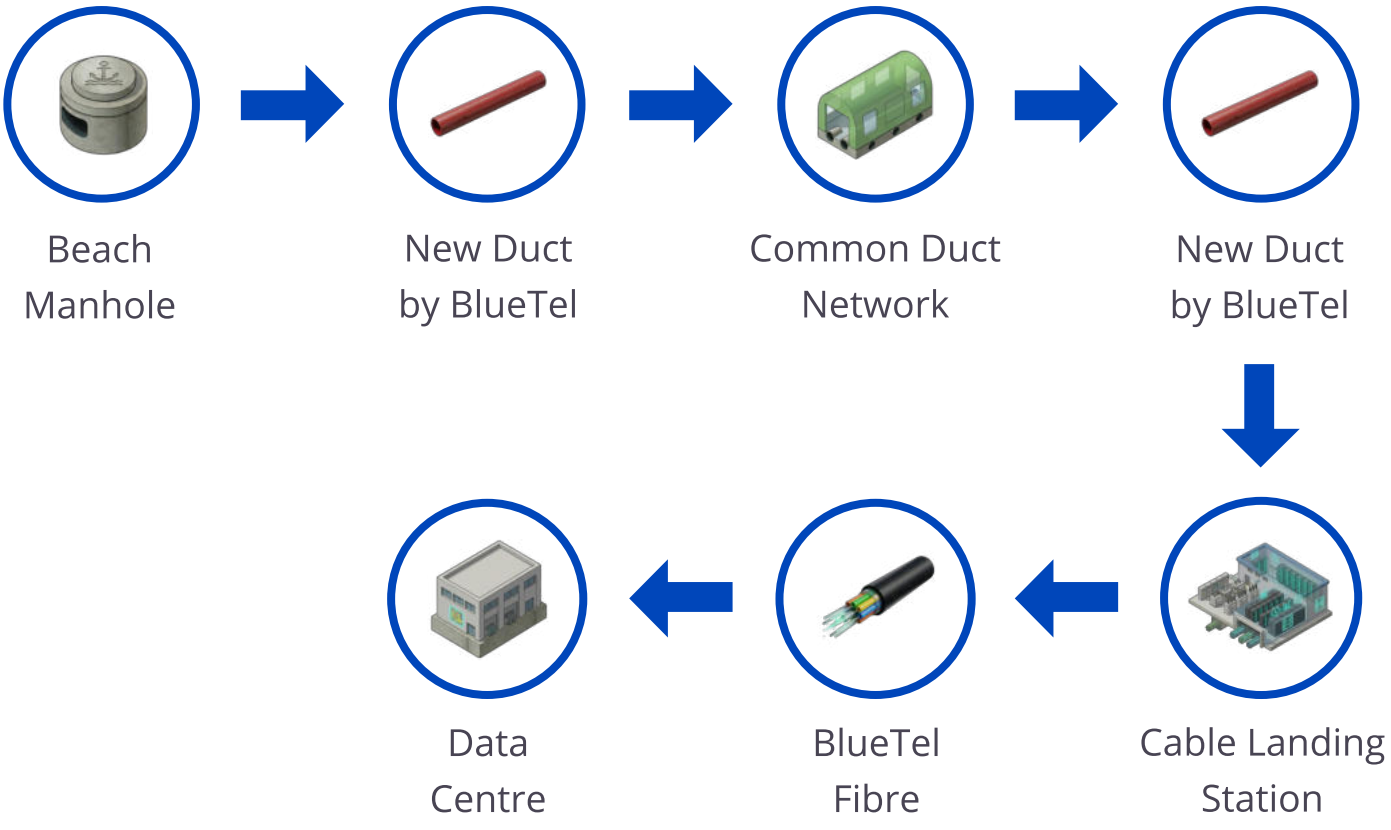
BlueTel Subsea–Terrestrial Integration

BlueTel provides a fully integrated, end-to-end terrestrial solution from **BMH → CDN → CLS → Data Centres.**

We uniquely address the missing links by:

- Constructing new duct connectivity:
  - BMH → CDN ingress
  - CDN egress → CLS
- Integrating with regulated CDN infrastructure
- Leveraging our existing fibre network: CLS → major DCs in Singapore
- Delivering a continuous, single-provider pathway

From Landing to Rack – One Continuous Pathway



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BlueTel's End-to-End Integration

WHY BlueTel

True End-to-End Ownership

Single accountable party across the entire terrestrial segment

Gap Bridging Capability

Able to design and construct missing duct segments

Faster Activation

Eliminates multi-party coordination delays

Regulatory Alignment

Experience with IMDA frameworks and CDN integration

Infrastructure Control

Design, build, and operate fully in-house

Delivery Model

1. **Route Design**
   BMH to CLS to DC alignment
2. **Gap Construction**
   New duct build (BMH ↔ CDN, CDN ↔ CLS)
3. **Integration**
   CDN + CLS + DC connectivity
4. **Activation & O&M**
   End-to-end service assurance

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Our Capabilities & the BlueTel Advantage

Service Scope

BMH interface integration	CDN ingress/egress connectivity	CLS connectivity and integration
Data centre connectivity (major DC clusters)	End-to-end fibre / DFP / capacity services	O&M and service assurance

Enabling Singapore's Next Wave of Subsea Capacity

As subsea systems scale beyond 2026, terrestrial integration becomes the **critical bottleneck.**

BlueTel enables:

- Faster landing readiness
- Scalable terrestrial expansion
- Reliable DC connectivity

Turning fragmented infrastructure into a unified, deployable solution. "CDN is not enough. We complete the missing x% that actually delays your project."

Item	Typical Market Model	BlueTel Model
Ownership	Multiple parties	Single FBO
BMH to CDN	Not covered	Covered
CDN to CLS	Not covered	Covered
CLS to DC	Separate provider	Integrated
Accountability	Fragmented	Single
Time to Activate	Uncertain	Predictable