The Future: Subsea-as-a-Service

Traditionally, if you needed access to a subsea cable, it was your responsibility to navigate the provisioning process with cable owners as well as securing the necessary hardware and staffing to manage the infrastructure.

If you don't already have existing infrastructure in place at either end of the ocean, it could mean significant capital expenses (hardware, for example) and ongoing operating expenses.

However, subsea cable access delivered through an as-a-Service model will help you simplify provisioning and procurement while eliminating unnecessary up-front and ongoing costs.

Quick Facts

- There are approximately 406 subsea cables in service around the world, owned by consortiums of telecom providers and private parties
- Subsea cables connect every continent except Antarctica
- Estimates suggest that there are 1.2 million kilometers of subsea cable
- Cables can be as short as 131 km (connecting the UK and Ireland) to as long as 20,000 km (spanning the Pacific Ocean)
- 99% of inter-continental Internet traffic crosses a subsea cable system
- Some newer subsea cables are capable of carrying +200 Tbps

Connecting continents

Here's how NTT can connect you to the Asia-Pacific market (and vice-versa) via our Hillsboro, Oregon data center facility and our Pacific Crossing 1 (PC-1) subsea cable.

Key specifications of the PC-1 Cable System

- Landing stations: Mukileto / Harbour Pointe (WA) and Aigaura (Japan)
- The inherent strength of PC-1:
  1. Shortest Trans-Pacific latency at PC-1 North Route, 85.31 ms
  2. High-reliability (No cable fault on PC-1S since 2007)
Real-world connection

When your business relies on the fast, uninterrupted data flow between servers and your millions of users worldwide, a Subsea-as-a-Service model could potentially improve your agility and responsiveness. Here’s a possible use-case:

THE SCENARIO: A major North American digital content provider wants to open up a new market in Asia for its streaming service.

THE CHALLENGE: Because this enterprise is entering this market for the first time, they need to make major investments to develop local technical and human resources necessary to scale operations fast enough to beat competitors.

THE SOLUTION: A Subsea-as-a-Service agreement with their West Coast data center provider saves time and resources so they can enter the desired market quickly and scale operations efficiently.

Enter Subsea Connect

NTT’s Global Data Centers division provides the easiest and most flexible “subsea-as-a-service” access to Asia with our Subsea Connect network service.

Deployed using NTT’s PC-1 network, our Subsea Connect network service delivers immediate access to the world’s most reliable and lowest-latency trans-Pacific cable system to and from the Asia-Pacific (APAC) market through dedicated 10G or 100G lit fiber connections.

Key Benefits

- Subsea Connect provides easy turn-up with flexible bandwidth options and contract terms.
- 10G to 100G connection available as-a-Service, ensuring minimal lead time to provision.
- PC-1 offers the shortest route and lowest latency across the Pacific, along with recent upgrades that have increased PC-1’s lit trans-Pacific transmission and design capacity.
- Secure transmission with Point-to-Point (P2P) dedicated lit fiber connection.

NTT puts you and your business at the center.

Our Global Data Centers Division is the third-largest data center provider in the world. We can offer you access to an entire global network of advanced, adaptable, and connected data center solutions—no matter the geography. We are dedicated to helping you power your business’s growth with the experience and tools you need to compete in an ever-changing global marketplace. We do this because we believe in putting people at the center.

Together we do great things.