

Current Status of Optical Cable Line Routing



AI Overview

Global optical cable routing is active and dynamic, with over 700 submarine cables in service, ongoing upgrades, and rerouting events due to maintenance, conflicts, and latency optimization.

Submarine Cable Network Overview

The global optical cable network consists of 703 active submarine cables, connecting major hubs such as Singapore, Marseille, Oman, Egypt, Japan, and Florida, and supporting hyperscale cloud, AI, and internet traffic . Recent projects, including the completion of the 2Africa system, have expanded open-access global connectivity to 45,000 km, enhancing redundancy and resilience . New routes are emerging across the Arctic, Red Sea, Mediterranean, Pacific, and Indian Ocean, reflecting strategic investments aligned with national digital strategies and cloud infrastructure expansion .

Routing and Latency Observations

Real-world measurements reveal that optical cable routing is not always the shortest path. For example, traffic from Almaty to Tokyo currently traverses 21,000 km of fiber via London and Singapore to reach a city only 5,400 km away, due to network topology and operational constraints . Similarly, disruptions in the Red Sea have forced traffic to reroute via satellite, highlighting the network's adaptability under conflict or maintenance conditions . GeoCables has reported 82 latency anomalies across 49 submarine cables in a 53-day period, with 16 events exceeding high-severity thresholds .

Article Content

Multi-Service Outage Map

Real-time multi-service outage map tracking internet, mobile, TV, utilities, banking, and streaming service disruptions.

Submarine Cable Map

TeleGeography's comprehensive and regularly updated interactive map of the world's major submarine cable systems

Home | FCC National Broadband Map

The map will be updated continuously to improve its accuracy through a combination of FCC verification efforts, new data from

Global Subsea Cable Status

Real-time submarine cable outage monitoring powered by community reports. Track global subsea cable status and incidents.

Network Maps | Lumen

Colocation A reliable infrastructure to support business apps and grow market presence. Dark Fiber A high-capacity, scalable and

Submarine Cable Map 2023

Red2Med is a rich addition to its current 10 diverse Egypt crossing routes. Additionally, the company is planning on expanding its

Optimum (Cablevision) outage or service down? Current problems

Real-time outage overview for Optimum/Cablevision. Problems with your TV signal, phone issues or is internet down? We'll tell you

Interactive Map Depicts Global Submarine Cable Networks

This regularly updated interactive map shows submarine fiber-optic cable systems around the world, both current and

Our Network | Global Network Internet & Fiber Maps | Zayo

Explore Zayo's fiber network maps & global internet capabilities. Find core wavelength, long haul dark fiber, & IP network maps

Roadmap on optical communications

The optical communications area has become increasingly diverse, covering research in fundamental physics and

Submarine Cable Map: Interactive Routes of 700+ Subsea Cables

Interactive map of 700+ submarine cables worldwide - explore routes, landing points, owners, year of service and length. Click any

Do you know what fiber optic cabling is?

Enjoy the videos and music you love, upload original content, and share it all with friends,

Optimum Internet Outage Map | Check Your Connection

Optimum's Internet outage map lists real time Internet outages in your area. Learn about Internet outages in your area and when

DwyerOmega | Shop for Sensing, Monitoring and Control Solutions

Explore DwyerOmega's comprehensive range of industrial sensing, monitoring, and control solutions from thermocouples to pressure

Fibre optic cabling in the US: Why demand cannot be allowed to

It is interesting to note that according to IBIS World, the market size of the fibre optic cable manufacturing industry in

Network status and outages | nbn

nbn is a wholesaler – we provide the portion of the network that connects your home or business to your service provider's network.

Global submarine cable systems

TeleGeography's interactive submarine cable map shows the majority of active and planned international submarine

Fiber Map of the World 2026

Fiber maps visualize the global network of fiber optic cables, showcasing how data moves across continents and under oceans.

Lumen Expands its U.S. Network with NorthLine, a New Northern

Lumen Technologies (NYSE: LUMN) today announced the expansion of its network with NorthLine, a new low

OpenFiberMap — Global Fiber Optic Network Map

Free, open-source, interactive 3D map of the world's terrestrial fiber optic networks. Browse routes, IXPs, data centers, and landing

Internet Infrastructure Map (2026)

Explore the physical backbone of the internet with our interactive map of undersea fiber optic cables, peering exchange points, and

California Interactive Broadband Map

Availability of speeds that are equal to or greater than 25 Mbps download and 3 Mbps upload, using only non-legacy

Is internet down? Live outage map and reports

Live map of internet outages reported across the US. Check whether internet service is down near you. Updated in real time.

Internet Outages Live Map by Pingdom

Synthetic Monitoring Simulate visitor interaction with your site to monitor the end user experience.

Broadband Analytics and Monitoring

Welcome to NTIA Broadband Analytics and Monitoring (NBAM). NBAM is a geospatial platform built on ArcGIS Online used to share

Submarine Cable Map 2024

These rollouts can be traced back, in part, to submarine cable routing decisions. Cables land near locations prime for cloud region

CLINITEK Status®+ Urine Analyzer

The CLINITEK Status®+ Analyzer is an automated point-of-care urinalysis analyzer that aids in the assessment, diagnosis, and

Submarine communications cable

7 - Petroleum jelly 8 - Optical fibers Submarine cables are laid using special cable layer ships, such as the modern René Descartes

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://tkmm.eu>

Email: info@tkmm.eu

Phone: +48 22 538 29 41

Address: ul. Puławska 45A, 02-508 Warsaw, Poland

This document is for informational purposes only. Specifications subject to change without notice.

