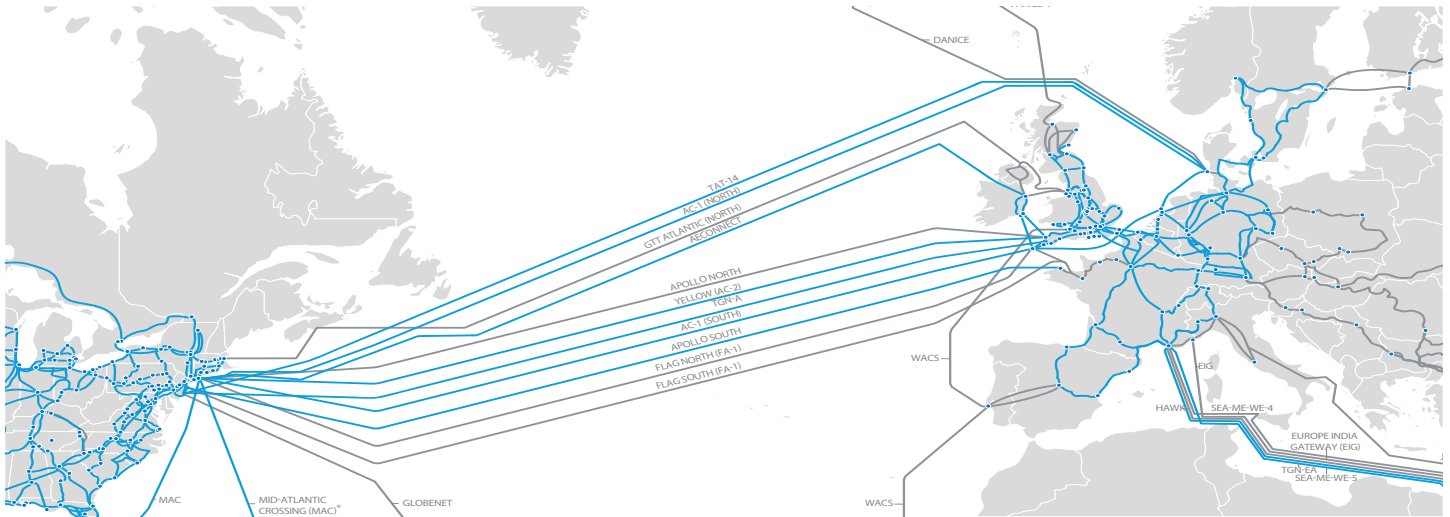


LumenSM Wavelength Transatlantic Service

Global | Scalable | Diverse

CenturyLink Wavelength Network



Map current as of Q4 2018

Carriers and enterprises alike require flexible, reliable core networks that can scale in a dynamic business environment. Lumen Wavelength Transatlantic services provide the end-to-end solution to meet these needs.

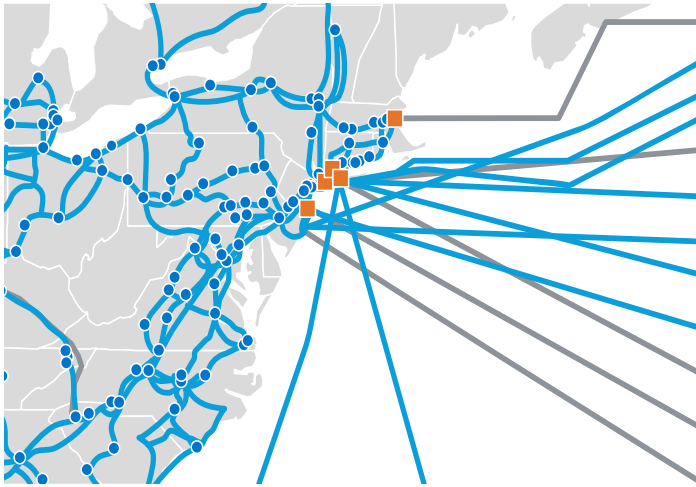
New Apollo South network capabilities

- Upgraded Submarine Line Terminating Equipment (SLTE)
- Apollo South fiber pair owned and operated by Lumen from France to the U.S.
- Diversity options include multiple sub-sea and terrestrial network options in EMEA and the U.S.
- Advanced capacities and capabilities match services available on Yellow and AC-1 Cable Systems
- Scalable bandwidth up to 100 Gbps waves now available on all three transatlantic cable systems

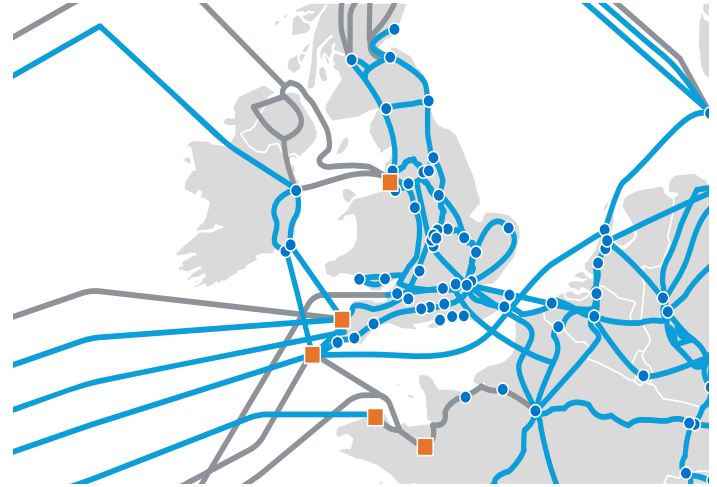
Speeds and systems

- 1G, 10G, 40G, 100G wavelengths
- Apollo South (route distance — ~6500 km)
- AC1 South (route distance — 6,000 km)
- Yellow (route distance — 6,200 km)

Diverse cable systems and landing stations



Map current as of Q4 2018



- Apollo South: Lannion, France and Manasquan, U.S.
- FLAG North: Skewjack, U.K. and Northport, U.S.
- Hibernia: Southport, U.K. and Lynn MA, U.S.
- Yellow: Bude, U.K. and Bellport, U.S.
- AC1: White Sands, U.K., Sylt, Germany and Brookhaven, U.S.
- Apollo North: Bude, U.K. and Shirley, U.S.

Why Lumen

Maximize Network Diversity

- Benefit from true end-to-end cable system diversity options available with AC1 South or Yellow, and Apollo South.
- Leverage Lumen on-net services for optimized network backhaul routing resiliency and security.

Comprehensive solutions from a single provider

- Our global network is the foundation of an extensive portfolio of transport, data, voice and video solutions that can be tailored for your specific business needs by our network design professionals.

Reliable, flexible and scalable network

- Our global coverage and capacity deliver the bandwidth, performance and control your applications demand for connecting employees, customers and partners.

Listed speeds vary due to conditions outside of network control, including customer location, equipment, access through a wireless connection, and are not guaranteed.

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