

# Wavelengths

## High Capacity for Optimal Performance



Global demand for bandwidth is estimated to be growing at 40 percent per annum.\* This trend is being driven by the Internet of Things, big data, ultra-high-definition video, the expanding universe of cloud-based applications and increasing broadband subscriber penetration. GTT's Wavelengths deliver high-speed connectivity and guaranteed bandwidth between data centers, large office locations and service provider networks around the world, allowing organizations to easily scale network capacity to meet the increasing bandwidth requirements of their businesses.

## Transport for the Most Demanding Requirements

Wavelengths serve as the building blocks and core capacity of large-scale networks, providing end-to-end, dedicated optical transport and highly scalable bandwidth. GTT's Wavelengths are ideal for carriers looking to augment their global networks, ISPs and broadband suppliers that need to expand their PoP footprints, as well as web-centric and other enterprises that require high-speed connectivity and high-volume capacity between data center locations.

Financial institutions can also leverage the low-latency, reliability and scalability of GTT's Wavelengths to manage big data from their subscriber bases, accelerate transmission of financial data, and meet stringent regulatory requirements.

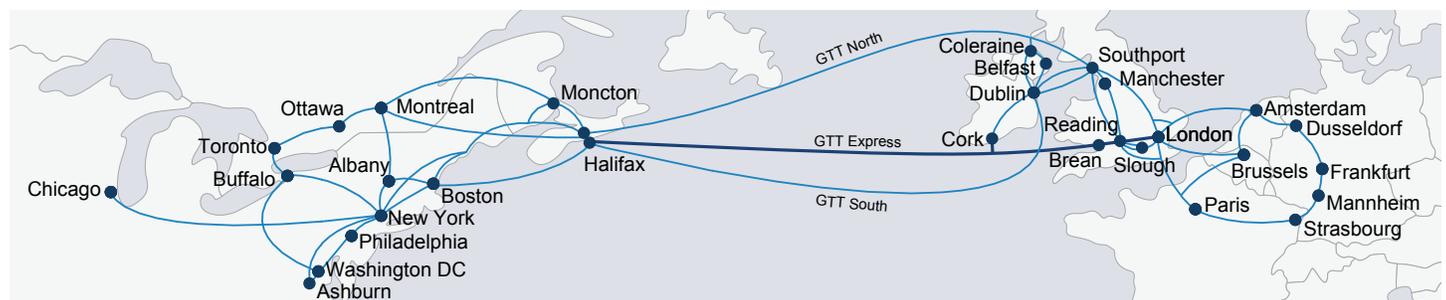
## Robust and Flexible

### State-of-the-Art Fiber Network

GTT delivers Wavelengths across its wholly owned and operated DWDM terrestrial and subsea fiber infrastructure. Our optical network spans more than 75 points of presence (PoPs) across North America and Europe and consists of three transatlantic subsea cables: GTT North, GTT South and GTT Express.

### Diverse Capabilities and Service Options

GTT's Wavelengths are offered at speeds of 10G and 100G. Both service options are available with Ethernet interfaces. We can also support native wavelength (virtual fiber and spectrum services), as well as other common data center protocols. GTT is the only subsea fiber provider to offer a protected option for 10G wavelengths on its transatlantic route. This service provides automatic failover of less than 50 ms, making it ideal for internet service providers and enterprises migrating from Ethernet to higher-speed wavelengths.



\*Source: Telegeography Bandwidth Research Report, 2016

# High-Speed, Diverse Routing

## Fastest Path Across the Atlantic

GTT's three transatlantic fiber routes compose our 4,600 km, 6-pair, 53 Tbps-capacity cable system that connects North America and Europe through landing points in Halifax, Nova Scotia; Brean, England; and Cork, Ireland. This cable system provides low-latency connectivity and route diversity between the major financial, media and commercial centers in North America, Europe and beyond. GTT Express is a state-of-the-art transoceanic optical cable that offers the absolute lowest latency between North America and Europe — under 59 ms from New York to London.

## The GTT Optical Network Difference

- Only transatlantic cable system that lands in Halifax, Nova Scotia, with routes into the U.S. (bypassing New York and New Jersey)
- Ability to provide 10G and 100G waves directly into Canada (bypassing the U.S.)
- Only cable system with three landings on Ireland
- Only cable system landing in the U.K. that does not land within Cornwall/South West England
- Only U.K. cable system that can provide connectivity into Europe, avoiding London
- Unmatched latency performance on key routes connecting major financial and commercial centers

## Key Benefits

- Custom solutions designed for capacity, diversity, latency performance or routing preferences
- 10G and 100G service options
- 10G protected option on transatlantic route with 50ms failover
- Network composed of over 75 owned and operated optical PoPs in Europe and North America
  - End-to-end, always connected, fixed optical path
  - Latest-generation optical (DWDM) platform
- Three transatlantic cables, including the lowest-latency route available today
- Highly scalable
- Guaranteed bandwidth
- Predictable performance
  - Guaranteed latency SLA
- Route diversity, with the ability to circumvent specific metros, as required

## Contact Us

For more information, visit [gtt.net](http://gtt.net) or call:

**Americas** +1 703 442 5500 **EMEA** +44 020 7489 7200 **APAC** +852 8107 1088

Stay Connected:    

