Spectrum

Expand your network with spectrum sharing – enhancing connectivity, optimizing cost.

Spectrum sharing is a technology that allows to maximize optical bandwidth over a single fiber. DWDM solutions have evolved from offering wavelength (electrical) services to channel-based (all-optical). This innovation optimizes resources usage, enabling EXA Infrastructure to offer cost-effective access to a high-capacity optical network. Spectrum sharing grants client's rapid entry to our top-class infrastructure, effortless service scalability, and the advantages of lower investment risks, all while ensuring high quality service and maintenance.

Why EXA Infrastructure Spectrum?

- Our team: dedicated & experienced staff to ensure smooth network operations
- Bespoke solutions designed to meet the capacity, diversity, latency performance or routing preferences customers want
- Consistently enhancing and implementing new technologies to improve the network and customer experience
- Leading coverage across Europe & North America
- 174,500 km of network with the Fastest route across the Atlantic: EXA Infrastructure Express 59ms NY-LON
- Substantial metropolitan fibre assets in all major European cities, which combined with EXA Infrastructure's wavelength footprint provide access into thousands of buildings
- Our transatlantic system has 3 landings on Ireland, 5 diverse paths from UK to Europe, and connectivity into Europe avoiding London
- Unmatched latency performance connecting major financial centers
- Commercially flexible to best suit our client's needs

Benefits for the Client

- Enables end-users to buy or lease capacities greater than a few wavelengths, yet less than acquiring a full and expensive, fiber pair.
- Flexible capital allocation - Optimized and protected investments
- Reduced service lead time compared to building a new DWDM system/fiber lease.
- No technology lock-in: customers can choose solutions and functionalities on the electrical layer, and suppliers of own choice
- Express service deployment using the long-distance EXA Infrastructure network.
- Access to pan-European fiber with multiple subsea dark fiber routes and metro networks in major business hubs.

Who is Spectrum built for?

Spectrum is tailored for businesses seeking to transmit multiple waves across national or international networks. An ideal solution for telecommunications operators, hyperscale compute and content providers with well-established, expansive networks of their own which can benefit from connecting to the EXA Infrastructure network.

Key features

- Cutting-edge solutions based on Flex-Grid technology.
- Ability to bypass specific metros by providing route specific paths.
- Available choices range from 10% to 100% of a fiber pair across both terrestrial and subsea routes.
- Supplementing the fiber optic path for quick service provision
- Proactive maintenance support to reduce service performance-related issues.
- Solutions based on leading transmission suppliers Infinera and Ciena

Optimum Fibre Technology

EXA network is built specifically for long-haul applications - meaning it exhibits excellent optical characteristics with a low occurrence of planned works and outages. With low splice losses, low reflectance and optimal ILA spacing, it effortlessly supports more than 33Tbit/s per fibre pair with the latest Raman technology. For our heaviest users, EXA is now installing the latest Corning Low Loss and Ultra Low Loss fibre on new routes and cable overpulls through existing ducts.

EXA Infrastructure owns and operates the most extensive dedicated infrastructure footprint connecting Europe and North America. Our network spans 37 countries and 8 subsea cable segments, including 8 Transatlantic routes. Our infrastructure provides the world's lowest latency links between NY and London.

As dedicated experts and providers of infrastructure, our sole focus is helping you achieve the growth you want, as simply and efficiently as possible.

EXA INFRASTRUCTURE

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