Spectrum

Enhancing connectivity.
Optimizing cost.

Spectrum Sharing enables customers to access EXA Infrastructure's high-capacity optical network by sharing the available fibre spectrum. This all-optical, channel-based solution makes better use of existing fibre resources while providing a flexible and cost-effective alternative to traditional wavelength services.

Customers benefit from rapid access to EXA's global optical infrastructure, seamless capacity scalability, lower upfront investment and reduced technology risk - all supported by EXA's fully managed service and operational expertise.

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 need
- Consistently enhancing and implementing new technologies to improve the network and customer experience
- Leading coverage across Europe & North America
- 180,000 km of network with the Fastest route across the Atlantic: EXA Infrastructure Express (60ms 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 cable landing stations 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, fibre pair.
- Flexible capital allocation - Optimized and protected investments
- Reduced service lead time compared to building a new DWDM system/fibre lease.
- No technology lock-in: customers can choose solutions and functionalities on the electrical layer, and suppliers of their own choice
- Express service deployment using the long-distance EXA Infrastructure network.
- Access to pan-European fibre with multiple subsea dark fibre routes and metro networks in major business hubs.

Who is Spectrum built for?

Spectrum is designed for businesses with high-bandwidth connectivity requirements, looking to efficiently scale their optical network capacity across national and international routes. It is well suited for organisations that need flexible access to high-capacity fibre infrastructure while maintaining control over their network connectivity and future capacity growth.

Key Features

- Cutting-edge solutions based on Flex-Grid technology.
- Ability to bypass specific metros by providing route specific paths.
- Available options range from a single superchannel 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 Nokia and Ciena

Optimum Fibre Technology

EXA's 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.