

WAVELENGTHS (DWDM)



DELIVER TODAY AND SCALE OR TOMORROW

Our 100G enabled Wavelength services provide dedicated, high capacity transport designed to handle heavy-duty traffic across long-distances.

CARRYING HEAVY DATA-LOADS

When your network is under more pressure to carry heavier data loads across long-distances, DWDM is the perfect technology to help. Multiple light wavelengths (or colors) are used to send data over the same optical fiber to efficiently utilize your infrastructure.

POINT-TO-POINT DEDICATED CONNECTIONS

Our Wavelengths services support diverse applications like video, voice, and storage across your global sites, with access to more capacity when needed. The simplicity of wavelengths makes your network more versatile and efficient when deploying point-to-point dedicated connections between your sites and data centers.

100G WAVELENGTHS AND BEYOND

Right now, you may find that 10G wavelengths sufficiently meet your needs, but over time you will need more.

We were the first to commercially offer 100G wavelengths on both sides of the Atlantic and preparing to be market-ready for 400G.

You can choose single links or a redundant ring network topology to build your network to connect key sites. Securing the resilience and availability of your network largely depends on the criticality of your data. Our highest level of availability comes with the dual links service option – which provides two fully diverse routes between the same endpoints.

BENEFITS IN BRIEF

HIGH-CAPACITY

Leverage our investments in optical fiber to significantly reduce your costs of building a fiber-optic network.

VERSATILE

Supports diverse application traffic using multiple colors of light on the same fiber.

FUTUREPROOF

Telia Carrier was the first to offer 100G wavelengths and preparing to be market-ready for 400G.

DID YOU KNOW?

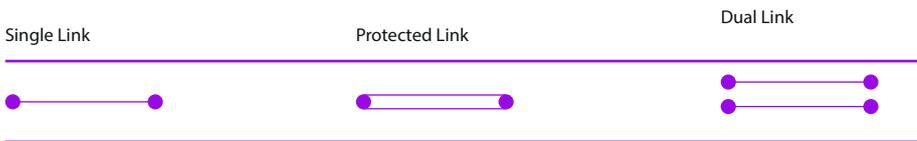
In 2017, Telia Carrier worked with Facebook to successfully trial their DWDM transponder on our fiber route between Stockholm to Hamburg.

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TECHNICAL HIGHLIGHTS

SERVICE OPTIONS



INTERFACE AND CHARACTERISTICS

| Interface | Capacity |
|-----------|-----------------------------|
| Ethernet | 1 GE, 10 GE, 100 GE |
| SDH | STM 16/OC 48, STM 64/OC 192 |
| ODU | OTU 2, OTU 2e, OTU 4 |

USE CASES

DATA CENTER INTERCONNECTION

Data centers use high-quality DWDM optical solutions for transport between data centers supporting multiple large bandwidth services.

HYPERSCALE CONNECTIVITY

Big data organizations use DWDM for efficient large-scale deployments to transport data between key sites.

LONG-HAUL NETWORKING

DWDM continues to be the technology of choice for Wholesale Service Providers building long-haul optical networks to serve their markets.

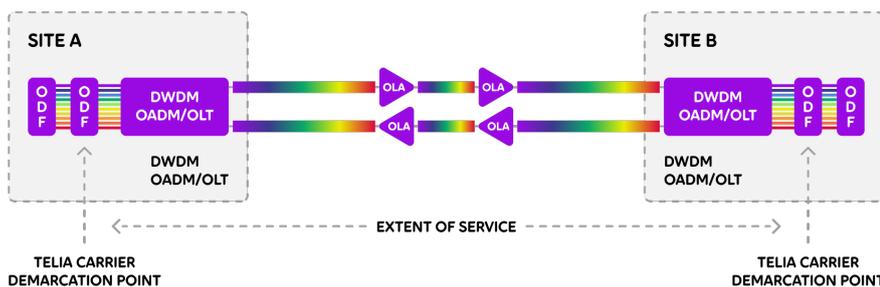


Figure 1: DWDM network components

Telia Carrier's network is engineered to provide diversity at the physical level – duct, cable, and fiber. The engineering combined with strict design guidelines provides fully diverse routing, end-to-end between all Telia Carrier PoPs.

Note: This document provides indicative service information and is not contractually or legally binding. Updated August 2020.