Tele2 Optical Channel – High bandwidth WDM Wavelength services

Tele2 Optical Channel provides a high-speed, transparent wavelength services that enables you to create your own optical layer network. We can provide you with unprotected or protected services from 1Gbps to 100Gbps over our advanced carrier-class DWDM network or in conjunction with partner networks.

- Active Optic Channel: Tele2 provides an active service where all active equipment involved is managed by Tele2 and a standard optical interface is used for delivery towards the customer. Enables long-haul wavelengths over hundreds or thousands of kilometers.
- Passive Optic Channel: Tele2 provides a passive optical channel through our network. The customer lights up this passive WDM channel with own WDM capable equipment. Typically used in metropolitan applications or other short-haul scenarios.

Worry-free communication
Tele2 takes care of the transport of your data in our high-speed DWDM network. You and your customers can enjoy high-capacity worry-free communication between locations without the need for active long-haul optical equipment.

Flexible technology choice
Tele2 offers Ethernet wavelengths over 1GE, 10GE, 40GE and 100GE interfaces with 10GE services available as LAN or WAN PHY.

SDH and SONET are also available at 2.5Gbps (STM-16 / OC-64), 10Gbps (STM-64 / OC-192) and 40Gbps (STM-256 / OC-768).

Why choose Wavelength services from Tele2?

Extensive Reach
Our own DWDM network covers the majority of cities in Sweden and through our partnerships we can deliver one of the most extensive footprints in the country.

Resilient and Reliable Network
Wavelengths can be protected at line level to offer maximal uptime. Multiple diverse paths enable us to deliver more than 1+1 protection between major cities (Stockholm, Gothenburg and Malmö).

Low Latency
Tele2's DWDM network is largely based on OPGW (OPtical Ground Wire) fibre in the national power grid. Power lines are drawn straight which yields a lower latency path than fiber that follows roads or similar infrastructure.

Raw Bandwidth
Our state of the art network is able to carry 100Gbps wavelengths, catering to even the highest of bandwidth demands with ease.

Crypto
Tele2 is able to add crypto on layer 1 resulting in extremely low addition of delay

Tele2 Optical Channel

Ethernet	1 Gbit/s 10 Gbit/s 40 Gbit/s 100 Gbit/s
OTN	OTU1 (2.5 Gbit/s) OTU2, OUT2e, OTU1e (10 Gbit/s) OTU3 (40 Gbit/s) OTU4 (100 Gbit/s)
Fibre Channel	1 Gbit/s 2 Gbit/s 4 Gbit/s 8 Gbit/s
SDH	STM-16 (2.5 Gbit/s) STM-64 (10 Gbit/s)
Latency	20-220 µs + fiber propagation delay
Bit error rate	$< 10^{-12}$
Availability	