Wave Division Multiplex (WDM)

- **Speeds from 1 Gbit/s to 100 Gbit/s**
- **Supports Ethernet, SAN, and SDH**
- **Based on GlobalConnect's country-wide fibre network**
- **Ultimate traffic quality**
- **No requirement for active long-range optical transceivers**

Wave Division Multiplex (WDM) is the ultimate network solution for speeds from 1 Gbit/s and beyond. Wave Division Multiplex WDM gives you all the benefits of dark fibre but without the need for active long-range optical equipment.

Freedom and flexibility

A Wave Division Multiplex (WDM) network solution means that your physical locations across the country are connected using one or more wavelengths propagating through the optical fibre cables in our country-wide fibre network. We provide the optical ports suitable for your equipment. With Wave Division Multiplex (WDM), the geographical distance is simply not an issue when planning your network.

No overbooking

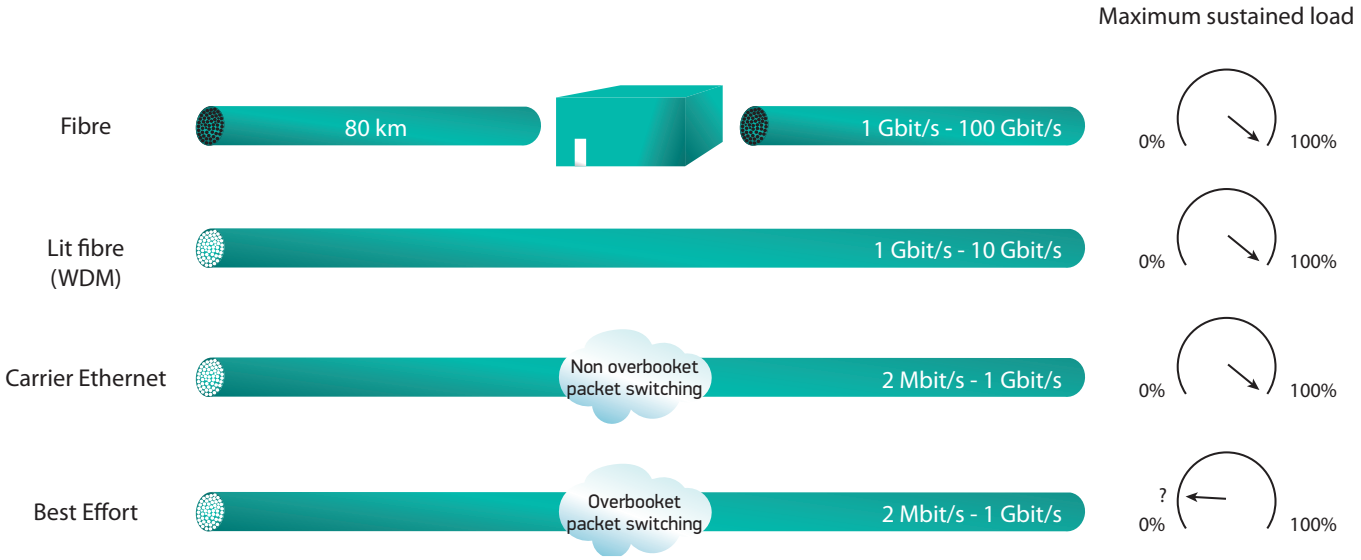
A typical fibre duct in GlobalConnect's network contains 72 fibre pairs. Each fibre pair is capable of carrying up to 40 different wavelengths, enabling as many fully separated data connections to be carried one the same physical medium. As each wavelength provides up to 10 Gbit/s of data capacity, the maximum capacity of a typical fibre duct amounts to approx. 288 Tbit/s. In other words, the Wave Division Multiplex (WDM) network holds an abundance of capacity.

Security

Wave Division Multiplex (WDM) provides you with your very own wavelength through the network - the agreed data rate is permanently at your disposal and not to be shared with others. The separation of data connections into wavelengths makes any unauthorized access physically impossible.

Ultimate quality

With a bit error rate of 10-12 and jitter imposed by the WDM network of 0 (zero) ms, a WDM connection yields the ultimately highest quality level available



Figur 1: Mangler UK oversættelse

Tekniske data

on the market. When using Wave Division Multiplex (WDM) across the country, your users will experience a similar performance as if the server and e.g. telephony platform were placed in the room next door.

Optional full diversty

Dual connections using diversely routed fibre ducts, dual internal cabling, and dual equipment result in an extremely low risk of downtime. The two connections may be used concurrently - all you need is equipment capable of routing all traffic through the active connection should one of the connections become unavailable.

Customer interface	We provide WDM through Ethernet-, OTU4, Fibre Channel- or SDH-interfaces.
OTU4 (app. 112 Gbit/s)	100GBase-LR4 100GBase-ER4
100 Gbit/s Ethernet	100GBase-LR4 100GBase-ER4-Lite 100GBase-CWDM4
40 Gbit/s Ethernet	QSFPP-LR4 QSFPP-ER4
OTU2 (ca. 11,1 Gbit/s)	10000BaseLR or SR
10- og 1 Gbit/s Ethernet	1000Base-LX 10000BaseLR or SR
Fibre Channel	8 Gbit/s, 16 Gbit/s
SDH	STM-1 (140 Mbit/s) STM-4 (622 Mbit/s) STM-16 (2,5 Gbit/s) STM-64 (10 Gbit/s)
Latency	< 10 ms, depending on distance.
Jitter	0 ms
Bit error rate	< 10-12
Availability	99,7% (standard) 99,99% (with full diversity)

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