Business Space meets Data Centre Performance

We care about your performance! That's why we work hard to offer you a great environment, drinks, service with a smile and, from now on, **the FASTEST data transfer speeds in Berlin Mitte**! To get you ready for the future, in summer 2023 we installed a unique **FTTD (fibre to the desk)** architecture throughout our offices. The Classik Business Space has a **100 Gbps** internet connection and offers **10 Gbps** symmetrical shared internet access as standard.

Applications such as VR, AR, AI, cloud computing, IoT, video streaming and video conferencing are constantly increasing demands on internet connection and LAN performance. For example, data traffic at the world's largest internet node, the DE CIX in Frankfurt, has doubled every 19 months since 1995. That equates to a tenfold increase in bandwidth every five years, and that trend looks set to continue. That's why you need both a strong external internal connection and a high-performance LAN to avoid data bottlenecks.

To prepare for these growing demands, in summer 2023 Classik Business Space installed Hexatronic Singlemode G657a1 OS2 fibre-optic cable throughout the building. That means we meet the standards used by major telecommunications providers for long-distance connections. An impressive 87 kilometres of cable was laid to achieve a point-to-point network with a central hub. A total of 1,680 LD duplex sockets in the building can be directly connected as required. Speeds of 10 Gbps, 25 Gbps or 100 Gbps can be individually selected for each network socket, while link aggregation allows for network connection speeds up to 1200 Gbps.
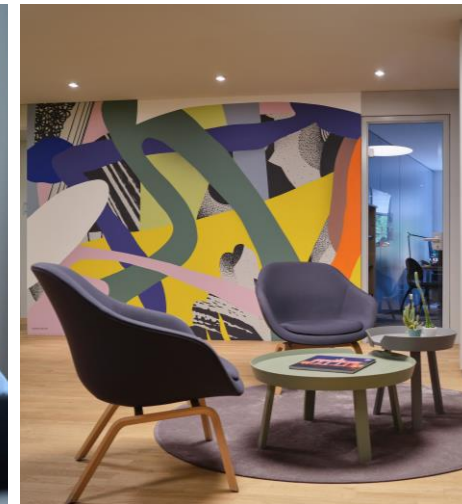
Our Classik Business Space IT team is happy to help you select the right data speed and connectivity option.

Installed switching capacity of **90 Tbps** will ensure optimum data transmission for years to come. By comparison: the highest measured peak at DE CIX was 8.1 Tbps.
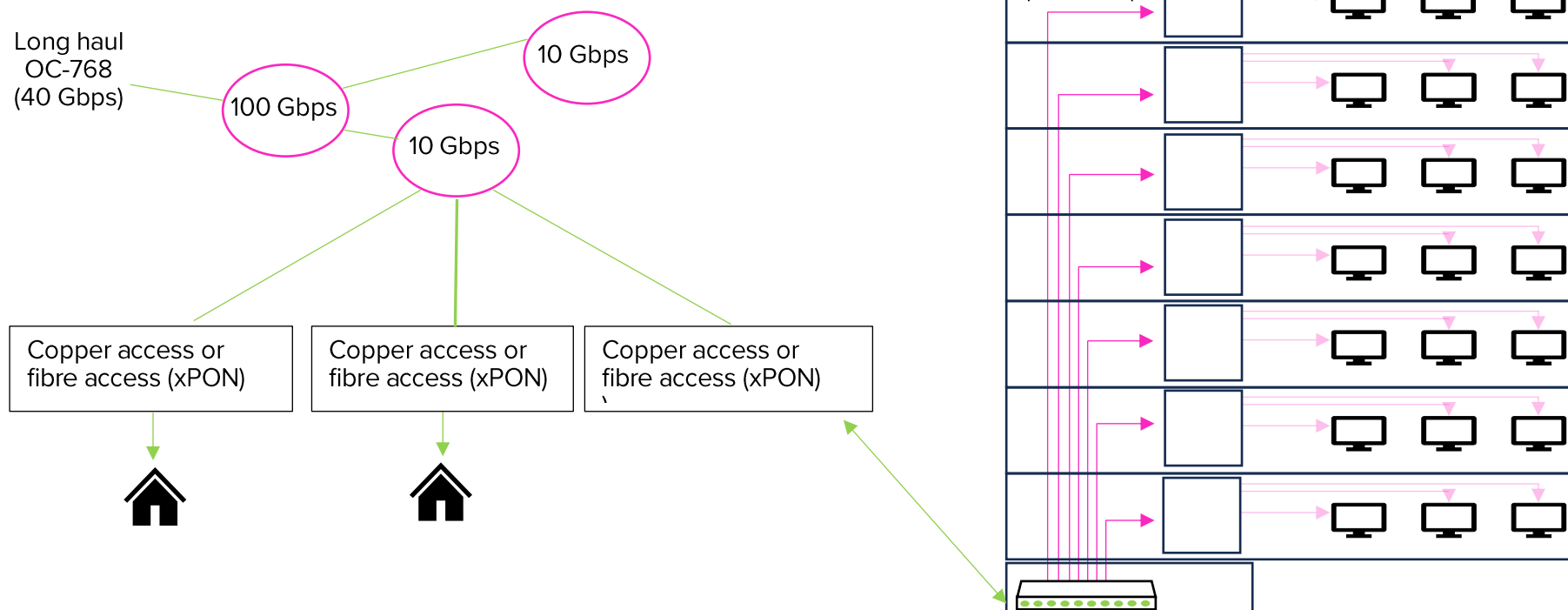
The Classik Business Space has a **100 Gbps** internet connection and offers 10 Gbps symmetrical shared internet access as standard.

If you have even higher requirements in terms of performance and security for sensitive data, the central cabling described above allows for complete physical separation of your network from our other tenants and a dedicated internet connection with speeds up to 100Gbps from our partner COLT.

Our infrastructure sets standards in terms of performance, reliability and adaptability in modern office networking.

Standard structured cabling in buildings

typically 1 Gbps

up to 10 Gbps

Long haul
OC-768
(40 Gbps)

10 Gbps

100 Gbps

10 Gbps

Copper access or
fibre access (xPON)

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Slow but common:

Backbone:	1 Gbps RJ45 CAT5-CAT7 (copper)
Riser cable:	1 Gbps CAT5-CAT7 (copper)
Internet access:	1 Gbps Download/0,05 Gbps Upload

Enhanced backbone, slow riser cable:

Backbone:	10 Gbps RJ45 CAT5-CAT7 (copper)
Riser cable:	1 Gbps CAT5-CAT7 (copper)
Internet access:	1 Gbps download/0.05 Gbps upload

Multimode fibre-optic backbone,
10 Gbps copper riser cable, multiple parallel symmetrical internet connections:

Backbone:	n x 10 Gbps multimode fibre
Riser cable:	10 Gbps CAT5-CAT7 (copper)
Internet access:	n x 1 Gbps download/n x 1 Gbps upload

Multimode fibre-optic backbone,
10 Gbps copper riser cable, multiple parallel symmetrical internet connections:

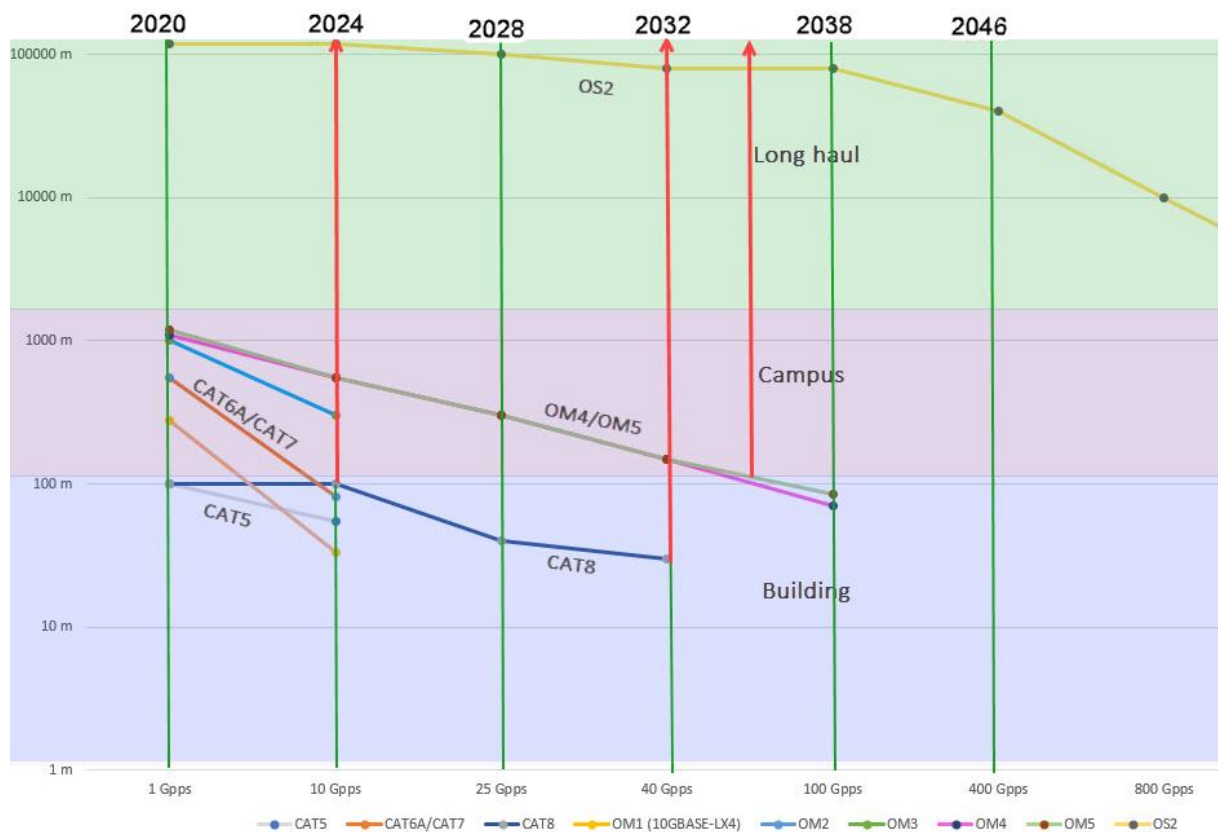|	
Backbone:	40-100 Gbps multimode fibre
Riser cable:	10 Gbps CAT5-CAT7 (copper)
Internet access:	n x 1 Gbps download/n x 1 Gbps upload

Possible distance and bandwidth depending on cabling standard

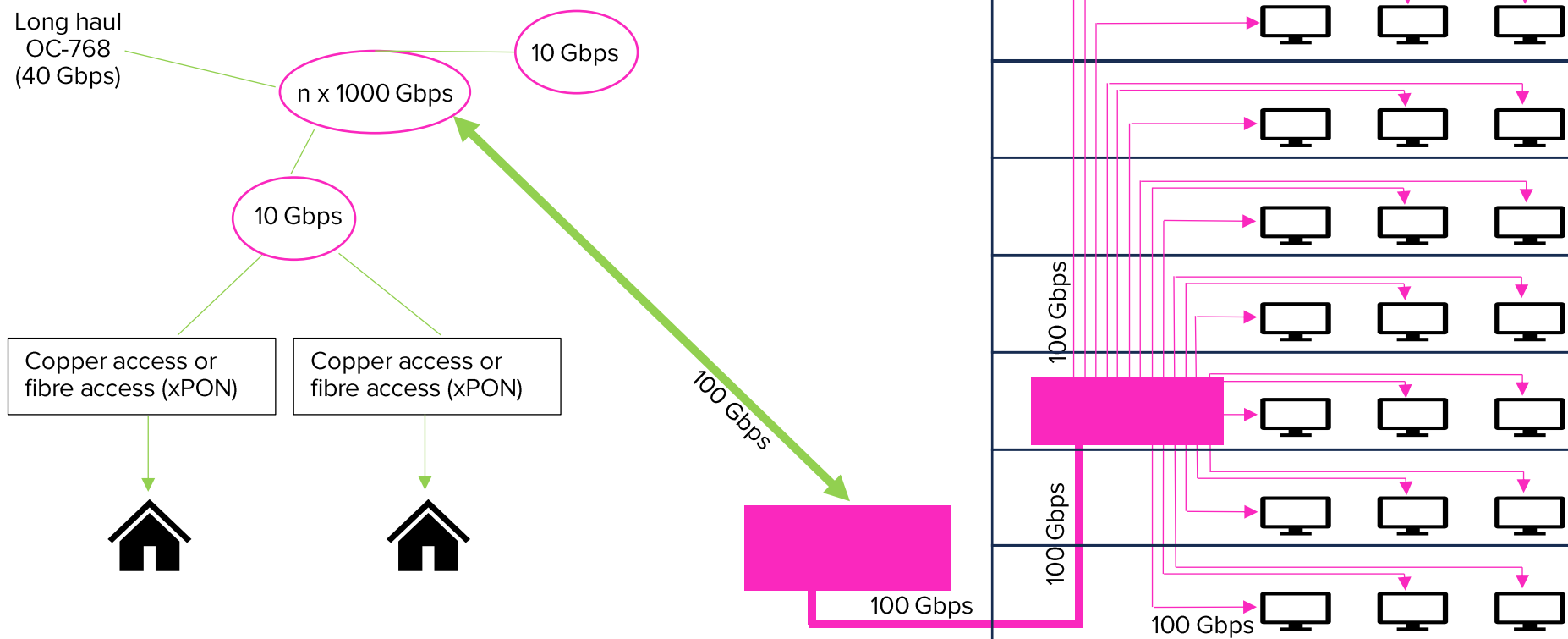Determination of appropriate use of copper or multimode cabling depending on expected bandwidths.

If we consider cable types in terms of future viability, the following picture emerges: The diagram shows possible cable lengths depending on cable type, with the year when certain bandwidth requirements are expected shown at the top.

With an expected cable length of up to 100m in buildings, CAT5 only offers up to 1 Gbps, CAT7 offers up to 10 Gbps and CAT8 offers approximately the same bandwidth, while the maximum cable length for speeds of up to 25 Gbps and 40 Gbps is 40m and 30m respectively. Only OM4/OM5 multimode fibre can achieve speeds of up to 100 Gbps and offer a few years' security – but only in the backbone.

OS2 beats all the other options – ensuring the necessary bandwidth regardless of cable length.

That's why chose the cabling architecture shown in the following diagram. Thanks to OS2 cabling throughout the building, we offer future-proof infrastructure with speeds of up to 100 Gbps or LAG speeds of up to 1.2 Tbps – probably the only network of its type in Europe.

Classik Business Space Network

Long haul OC-768 (40 Gbps)

n x 1000 Gbps

10 Gbps

10 Gbps

Copper access or fibre access (xPON)

Copper access or fibre access (xPON)

100 Gbps

100 Gbps

100 Gbps

100 Gbps

100 Gbps

100 Gbps

100 Gbps

Prices (excl. VAT)

Passive infrastructure

Internal network	FTTD
Cabling	12-24 Adern OS2 single mode (standard G657A1), depending on requirements
Ports	1.680 x LC duplex
Network segmentation	VLAN (physical on request)
VPN tunnel	possible

PORT	10 GBASE-LR	EUR 15
	25 GBASE-LR	EUR 18
	40 GBASE-LR	EUR 20
	100 GBASE-CWDM4	EUR 35
INTERNET	10 Gbps symmetrical shared	Inklusive
	10 Gbps symmetrical dedicated	EUR 2.500
	100 Gbps symmetrical dedicated	EUR 12.000
NEW TENANTS	base price for internet	included in price per m² rented
EXISITNG TENANTS	base price for internet	EUR 2 per m²

Classik Business Space

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