Managed Dark Fiber

- Fully managed nationwide fiber optic network
- High quality, low attenuation and latency
- Fully underground and spliced
- Available in most datacenters in the Netherlands and Belgium
- Virtually unlimited bandwidth
- Fastest repair times in the market (guaranteed < 8 hours)

Running your business critical IT systems at multiple locations guarantees the continuity of your organisation and enables you to ensure your employees and other users can continue working in the event of a system failure at any of your locations. To do this successfully requires connections with very high bandwidths that are easily scalable to grow with your organisation's needs. Eurofiber's Managed Dark Fiber service is the optimal solution for this and other demanding applications.

A managed dark fiber connection provides you with a fiber-optic link with control of two allocated fibers dedicated to your business. Your own choice of equipment determines the connection bandwidth, which is virtually unlimited. You lease the managed dark fiber connection based on the effective distance between your locations.

Efficient use

You can choose to connect your own network equipment directly to both ends of the fiber-optic connection and, if required, stack multiple applications using dedicated WDM (Wavelength Division Multiplexing) equipment. Combining dark fiber with WDM makes it possible to configure multiple Ethernet and fiber channel connections over the same fiber-optic connection. This enables you to transmit data from your server environment as well as your storage environment via multiple 10 Gb/s connections over a single dark fiber. And by combining multiple light paths in this manner, you can expand the capacity to 100 Gb/s or more.

Fully managed

Eurofiber's Managed Dark Fiber solution offers you the benefits of your own fiber-optic infrastructure without having to construct or manage it yourself. We ensure your dark fiber network is registered with the Netherlands Cables and Pipelines Registry (Kabels en Leidingen Informatie Centrum, KLIC), carry out reconstructions on public authority orders and repair any damage caused by digging. This is the 'Managed' component we add to dark fiber on your behalf. We have installed an Optical Network Monitoring System (ONMS) on our network that continuously monitors the availability of the infrastructure. In the event of a cable break (for example due to excavation work), ONMS can measure exactly where the break is. To guarantee our high quality network, structural preventive maintenance is performed.

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Managed Dark Fiber
is a scalable and
reliable solution.

Ideal for use in multiple environments, including:

- Organizations with geographically dispersed datacenter locations
- Combined schools with different locations
- Healthcare institution and hospital partnerships with multiple locations
- Cooperating or merged municipal authorities
- Smart power and water networks
- Camera surveillance and traffic control networks
- Organizations that want to provide their own lighting

Designing dark fiber as a series of rings provides you with an infrastructure that delivers maximum availability and reliability, thanks to fully separated routes, for existing and future applications.

Availability

Our fiber-optic network is located entirely underground, in robust ducts. The fibers are spliced together, and not patched. This provides a guarantee of very high availability and extremely low risk of malfunction. Furthermore, splicing the fibers ensures low connection attenuation. This can be to your benefit as it may enable you to use equipment with less expensive optical interfaces in specific cases.

Ring structures

If you have multiple locations geographically close to one another, you may want to consider installing your own dark fiber optical ring. Stringing your locations together in a fiber-optic chain enables you to cut your telecom costs for each location, even if bandwidth usage differs from one location to the next.
A dark fiber ring also offers you the perfect platform for innovation. It enables you to easily centralise IT systems, data storage, camera surveillance and access control systems as well as other processes, for example, and to deploy IP telephony, routing your telephone traffic over the same network as your data and internet connections.

Service Level

The availability of our fiber-optic network is a minimum of 99.9%. By opting for a fully separated second fiber-optic route, you can boost your availability to 99.99%. You can also rely 24×7 on the expert support of our Network Monitoring Center (NMC). The Network Monitoring Center is staffed by Dutch and English speaking experts.

Specifications 2019.2

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