

# DARK FIBER

## Service description

**DARK FIBER (DF)** consists of a spare, continuous, fiber optic strand between two accessible terminals within an existing, terminated fiber optic cable sheath. The Dark Fiber is unlit and has no fiber optic transmission equipment (e.g. intermediate repeaters) attached. The Dark Fiber consists of one or more fiber strands (i.e. one pair)

Service sub-type	Description
DF rental	Periodically paid DF usage
DF IRU	In advance payment for the DF usage period

### Features

- Nx1 fibers
- Unlimited bandwidth
- Predictable QoS
- Standardized
- Reliable

### Sample applications

- Ethernet Leased Line
- Local loop for SDH line (E1, STMx, etc.)

### Synonymous service names

- N/A

### RFI/RFP input details

- Service type
- Number of fibers
- UNI location (city, street, etc.)
- Contact person (name, mobile phone, e-mail)

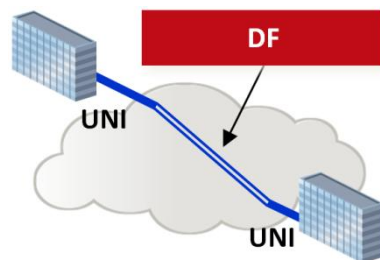
### Service Provisioning process

- Inquiry > Quotation > Order > Provisioning

### To place order/request information, please contact

- Phone +359 (2) 490 3211
- E-mail [sales@telehouse.bg](mailto:sales@telehouse.bg)
- Internet [www.telehouse.bg](http://www.telehouse.bg)
- Address Ovche Pole 122 str., fl.2, Sofia 1303, BULGARIA

### SERVICE DIAGRAM



### Service elements

- Service: sub-type, duration
- Fibers: number, length
- Physical locations of end-points
- SLA: general or specific

### TECHNICAL DESCRIPTION

ISO OSI – Layer-1

Mode – SM

Cable lead – HDPE or armored

Applicable standards – ITU-T G.652 (and associated)

Attenuation

- 0.35 dB/km @1310 nm
- 0.22 dB/km @1550 nm
- <0.3 dB/splice

Service Demarcation Point (UNI)

- ODF
- Direct fiber splice (in fiber-optical muff)

Optical UNI interfaces:

- SC/PC
- LC/PC
- Others available upon request

Initial service provisioning

- RFS within 15 business days (meantime, ask for exact)

### GENERIC SLA

24x7 Helpdesk available with TT system

Service availability 99.5%/yearly

Service restore after outage due to cable failures (MTTR)

- Business hours: <6h
- Outside working hours: <12h
- Stolen cabling and natural disasters: <2 days

### GLOSSARY

**DF** – Dark Fiber

**EPL** – Ethernet Private Line

**HDPE** – High-Density PolyEthylene

**IRU** – Irrevocable Right of Use

**ISO** – International Standardization Organization

**MCDN** – Municipal Cable Duct Network

**MRC** – Monthly Recurring Charge

**MTTR** – Mean Time to Recover

**ODF** – Optical Distribution Frame

**OSI** – Open System Interconnect 7 layer model

**PoP** – Point of Presence

**QoS** – Quality of Service

**RFS** – Ready for Service

**SDH** – Synchronous Digital Hierarchy

**SLA** – Service Level Agreement

**SM** – Single Mode

**TT** – Trouble Ticket

**UNI** – User Network Interface