

# Alien lambda

## Rental of a high-capacity circuit built on wdm technologies.

By breaking down the color spectrum of the light beam in the optical fiber, WDM technology enables the use of this fiber for transmission at capacities multiple times higher than before. Each wavelength – **ALIEN LAMBDA** – offers the possibility of transmitting the same capacity point-to-point as would one fiber without the WDM technology. Dial Telecom operates a wide DWDM and CWDM network. Major path for **ALIEN LAMBDA** is between Frankfurt and Czech Cieszyn with possible splitting in Prague. The DWDM network is built on the technology developed by Huawei Technologies, which over the long term has proven to be top quality and reliable and enables the transmitting of capacities  $n \cdot 100$  Gbps.

### WHO IS THIS SERVICE DESIGNED FOR?

This service is designed primarily for telco carriers.

### THE SERVICE INCLUDES

- fully dedicated high-speed point-to-point data transmission
- clearly defined route
- 24/7 monitoring
- technical support for making required configuration changes

### BENEFITS OF THE SERVICE

- high transmission capacities
- reliability
- cost efficiency
- high quality (minimum delay, jitter and packet loss)
- security of customer's data
- continual development of ALIEN LAMBDA services with availability at most exchanges of the optical network of Dial Telecom in the Czech Republic
- possibility of SLA – guarantee of quality and service availability

### TECHNICAL SPECIFICATIONS (SUPPORTED INTERFACES)

- ITU-T G.694.1 Spectral grids for WDM applications: DWDM frequency grid
- transmission window: C-band (1529.55 to 1560.61 nm)
- 50GHz grid
- modulation ePDM-QPSK
- coherent detection
- FEC function: soft-decision SDFEC (in compliance with Huawei II. generation SDFEC)

### PARAMETERS OF PATH FRANKFURT – CZECH CIESZYN

- total span number: 15
- distance: 1198km
- OSNR: 17.6 dB

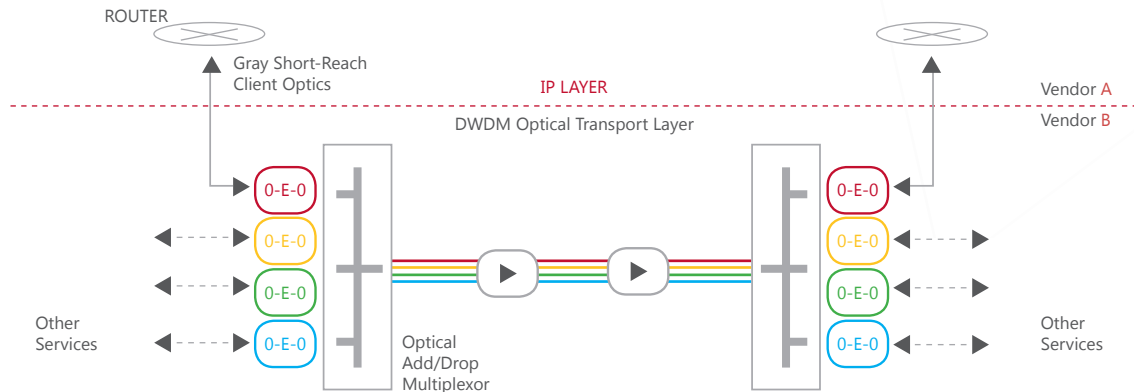
The ALIEN LAMBDA service represents a solution that corresponds to the growing need and cost efficiency for data transmission capacity of telecommunication operators.



## Layout of the service



## Interconnection Using Native Wavelengths



## Interconnection Using Alien Wavelengths

