

A stylized map of the Val d'Aosta region in Italy, overlaid with a network of glowing blue lines and nodes representing optical fiber connections. The map is set against a dark blue background. At the bottom of the map, there is a curved banner with the colors of the Italian flag: blue, white, green, and red.

DARK OPTICAL FIBRE OF THE VAL D'AOSTA REGION

Maintenance of the optical fiber connections

Dark optical fibre of the Valle d'Aosta Region

The service consists in the management and maintenance of connections made using dark fibre, for which the Operators have acquired the exclusive rights of use from the Valle d'Aosta Region.

Service features

Infrastructure Extension

- **600 KM**

Who is it for?

The offer is for fixed, mobile and wireless network operators who intend to implement:

- networks to connect two or more POPs together;
- connections to link radio sites to traffic concentration nodes;
- regional backbones.

Description of the service

In 2009, the Autonomous Region of Aosta Valley launched a development plan for next-generation networks across the regional territory (the VdA Broadbusiness Plan), aimed at building fiber optic backbones throughout the valleys, reaching the main sites of mobile operators and the exchanges of fixed operators.

In 2013, IN.VA., as the implementing body of the VdA Broadbusiness Plan, issued a tender for the "turnkey" supply of the aforementioned regional dark fiber backbones and the management and maintenance activities for the infrastructure resulting from the interconnection of these backbones with the fiber optic network built by the Region in collaboration with the Compagnia Valdostana delle Acque.

TIM (*), in a temporary grouping with the companies Alpitel S.p.A. and SIRTI S.p.A., won the aforementioned tender and today, as the manager of the dark fiber infrastructure, provides management and maintenance services to authorized operators who acquire exclusive rights of use (IRU) on the optical fibers from the Aosta Valley Region, following the signing of an appropriate contract.

If you are an operator interested in acquiring IRU rights on the optical fibers of the Aosta Valley Region managed by FiberCop, you can contact fibreottiche@regione.vda.it.

(*) On July 1, 2024, the operation was completed, involving the transfer of a business unit from TIM to FiberCop S.p.A. regarding activities related to the primary fiber and copper fixed network; FiberCop was already the owner of the secondary infrastructure.

Dark optical fibre of the Valle d'Aosta Region

Fibre types and technical characteristics

The main technical characteristics of optical fibers are:

- attenuation;
- chromatic dispersion;
- cut-off wavelength.

The ITU has standardized various types of optical fibers, which differ from each other based on the values of these technical parameters.

The optical fiber backbones in question have been built using ITU-T G.656 type fiber.

Regulatory Conditions

The service is exclusively for:

- Operators with an individual license or a general authorisation for telecommunications networks and services for public use which existed before the entry into force of Italian Legislative Decree no. 259 of 1 August, 2003, containing the 'Electronic Communications Code' (referred to in Article 38 of the Code), as last amended by Italian Legislative Decree no. 70 of 28 May 2012.
- Companies with a general authorisation for electronic communications networks and services pursuant to Art. 25 of Italian Legislative Decree no. 259 of 1 August 2003, as last amended by Italian Legislative Decree no. 70 of 28 May 2012.

 FiberCop