

A stylized world map in shades of blue and black, overlaid with a network of glowing white arcs and dots representing data connections. A binary sequence "010011001001" is faintly visible across the map. At the bottom, a decorative graphic consists of overlapping curved bands in blue, green, white, and red.

FIXED BACKHAULING OVER ETHERNET

End-to-end Ethernet connectivity

Fixed Backhauling Over Ethernet

The Service allows the Operator to transport voice and data traffic between its fixed network POPs and is based on the Ethernet network, compliant with MEF regulations.

Availability	SLA for outage	Assurance SLAs	Performance degradation
National Territory	Connection SLA	5 solar hours	For all connection types:
100%	90% of the time: 8 solar hours		99% of cases: 3 solar days
	100% of the time: 14 solar hours		

Who is it for?

The service is aimed at Operators and Companies holding general authorization for electronic communications networks and services who wish to create Ethernet connections between their POPs.

Preliminary services

The configuration involves the installation of the Network Termination Point, PTR, at the control unit where the Operator's network equipment is present.

Collocation, Commercial Housing

Description of the service

The Fixed Over Ethernet Backhauling Service allows the Operator to transport voice and data traffic from its radio antennas to its network PoPs and is based on the Ethernet network capable of guaranteeing differentiated traffic quality.

The service involves the installation of a level 2 Ethernet device, PTR or Catalyst, at the control unit relating to the site subject to Backhauling.

It is made up of connections with fiber optic access and packet network transport (OPM network). OPM transport occurs through the creation of s-VLANs compliant with the 802.1ad standard delivered to the Operator via interconnection kit to its site. Upon request of the Operator it is possible to optionally provide compliance with the QinQ (802.1q) standard.

Fixed Backhauling Over Ethernet

The profiles available in the Offer are:

- BH Internet Data: with CoS 1;
- BH Silver Data: for video applications with CoS 3;
- BH Gold Data: for voice applications with CoS 5;
- Multi-CoS: the following profiles are envisaged:
 - I. Profile A: 70% CoS 1. 20% CoS 3. 10% CoS 5
 - II. Profile B: 90% CoS 1 and 10% COS 5
 - III. Profile C: 80% CoS 1 and 20% COS 3

Profilo /C.I.R	10 M	20 M	30 M	60 M	100 M	200 M	300 M	>300 M
BH Fixed Data	-	-	-	X	X	X	X	O
BH Fixed Premium	-	X	X	X	X	O	O	O
BH Fixed Strict Priority	X	X	X	X	X	-	-	-
Multi-CoS	-	-	-	X	X	X	X	O

Legend: x -> Profile available
o -> Only on a Project Basis and subject to a Feasibility Study
- -> Profile not available

Annual connection availability

Availability levels depend on the length of links to mobile sites; FiberCop the relevant data is evaluated on a specific project.

The annual availability values of the connection, in the hypothesis of a fiber connection approximately 10 km long, are:

- if delivery takes place in the metropolitan area: **99.959%**;
- if delivery takes place in the Long Distance area: **99.957%**.

What else should you know

For On Net Control Panels, connections can also be ordered directly from the Operator. For all other cases, the sale of connections must be preceded by a feasibility study.

Fixed Backhauling Over Ethernet

If the Operator wishes to have a connection delivered on one of its PoPs at a FiberCop exchange, the Operator must have signed a Colocation contract. No other preparatory services are necessary.

Pricing

For each individual BH Fixed Connection the following are provided:

- a one-off activation fee
- a monthly fee

For each Ethernet KIT the following are provided:

- a one-off activation fee
- a monthly fee

Regulatory Conditions

The offer is aimed at Operators holding individual licences or general authorisations 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 concerning the 'Electronic Communications Code' (referred to in Art. 38 of the Code), as last amended by Italian Legislative Decree no. 70 of 28 May 2012, and to companies holding a general authorisation for electronic communications networks and services pursuant to Article 25 of Italian Legislative Decree no. 259 of 1 August 2003, as last amended by Italian Legislative Decree no. 70 of 28 May 2012

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