



Wholesale Market



**Terminating Circuits
with copper access**

Dedicated capacity available to your
customers



TIM

Terminating circuits with copper access

The service provides dedicated capacity circuits between a Network Terminal Point at an end customer's premises and a Service Delivery Point at a Regional Transmission Node (RTN) of the TIM network, limited to cases where the customer's premises and the Transmission Node are both located in the same Regional Territorial Basin (RTB).

Service features

Connection type:

- Analogue (2 and 4 wire)
- Digital 1.2 Kbit/s to 2 Mbit/s

Who is it for?

The service is especially designed to meet the demand for security, transmission quality, confidentiality in communications, **guaranteed and dedicated bandwidth 24/7**, and transparency at transmission level.

Preliminary services

If you need to install your devices at a TIM location, you must first request the Colocation service. If you intend to collect Terminating circuits on a PoP outside a TIM office, you can request the supply of the geographical connection between the TIM Delivery Point and your PoP by subscribing to the Interconnection offer in advance.

Colocation

Interconnection

Description of the service

The service provides dedicated capacity circuits between a Network Terminal Point at an end user's premises and a Service Delivery Point at a Regional Transmission Node (RTN) of TIM's network, limited to cases where the customer's premises and the Transmission Node are both located in the same Regional Territorial Basin (RTB).

The service is especially designed to meet the demand for security, transmission quality, confidentiality in communications, guaranteed and dedicated bandwidth 24/7, and transparency at transmission level.

The offer covers analogue voice bandwidth connections, implemented by means of circuits with 2-wire and 4-wire analogue interface according to ITU-T Recommendation M.1040 (normal quality) and digital circuits with speeds between 1.2 kbit/s and 2 Mbit/s.

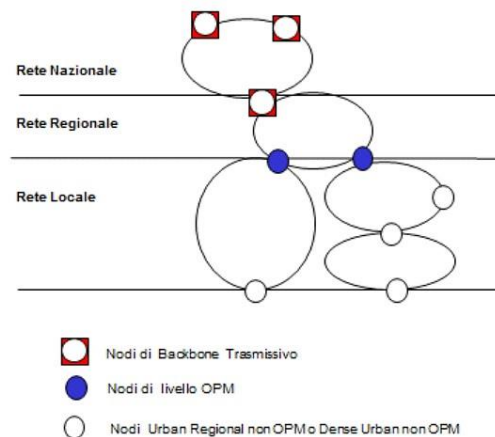


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TIM's transmission network is organised on three hierarchical levels:

- National Network: which provides full connectivity between nodes throughout the country;
- Regional Network: which achieves full connectivity between nodes at the regional level without affecting the upper level of the network;
- Local Network: which is the collection level of the flows travelling from the peripheral nodes to the Regional Network nodes.

The architecture of Telecom Italia's transmission network is shown below:



The system chain consists of:

- terminal equipment at the user's premises;
- copper access line to the first exchange of Telecom Italia's transmission network;
- transport service on Telecom Italia's transmission network to the RTN node;
- demultiplexing service for circuits with speeds below 2 Mbit/s;
- delivery on physical or electronic distributor

The collection of circuits in the node of the Telecom Italia Delivery Point takes place on an Interconnection Flow or on an Internal Switchboard Junction (in case the Operator is collocated in such node).

What else should you know

If the circuits are collected on a device installed in an Operator PoP outside a TIM site, advance subscription to the **Interconnection Flows** offer is necessary.

If the circuits are collected on a device installed at a TIM site, the **Colocation** service must be requested in advance.



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With reference to the AGCom provisions contained in resolution 333/20/CONS (see art. 6, paragraph 2), with effect from July 1, 2021 Telecom Italia has implemented the 'End of Sale' for certain types of connections, including analogue and digital terminating circuits up to 2 Mbit/s. Activation orders for such connection are therefore no longer accepted (neither by filling in the forms nor in 'self ordering' mode).

The Terminating circuits offer also includes connections with fibre-optic access. A description can be found in the relevant data sheet, available under Access Services > Dedicated Fibre-Optic Access.

Supply and maintenance

The service is generally available to all customers.

The delivery of the circuits takes place at the RTN nodes open to the service – the list of nodes is published as part of the Reference Offer in the "Offers" section of this service – and is only permitted within the same Regional Territorial Basin (RTB).

Provision of the service is, in any case, subject to technical verification of the availability of all the network resources necessary for the creation of the circuit.

The maximum circuit activation and reset times are differentiated on the basis of transmission capacity; the service includes both the '**Basic**' and '**Premium**' options.

Maintenance work can be requested by accessing a self-ticketing system for reporting faults from the private area of this portal; information on the resolution of inefficiencies is provided in the same channel of communication.

Further details on the service can be found in the published Regulated Offer in the Offers section of this service.

Prices

The pricing of the service is as follows:

monthly access fee (varying according to speed);

monthly kilometric fee for the transport route (differentiated by distance and speed classes).

Further details on the service's economic conditions can be found in the published Regulated Offer in the Offerings section of this service.



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For more information, please get in touch with your Account Manager or consult the Reference Offer

However, if you are not yet one of our Customers, you can access the section [Become a Customer](#) of the Wholesale portal and fill in the form. One of our Sales Representatives will contact you as soon as possible!

Regulatory Conditions

The service is 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. 259 of 28 May 2012. 70.

The Offer relating to the **Terminating Circuits** service is 'regulated', i.e. it is subject to approval in all its aspects by the Italian Communications Regulator (AGCom) and is updated every year and published in the [Wholesale portal](#) in the Reference Offers section of this service





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TIM SPA

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Tax Code/VAT no. and Milan Company Register no.: 00488410010 Registration with the A.E.E. Registry IT08020000000799 Share Capital € 11,677,002,855.10 fully paid-in