



# Wholesale Market FWA for decommissioned areas

From copper exchanges to FWA  
service





# FWA for decommissioned areas

FWA access service in areas where local copper exchanges are subject to decommissioning. The purpose of the service is to ensure that all consumers in copper exchanges can be migrated to NGA networks if their street address is not covered by FTTC/FTTH.

## Service features

### **Speed**

**DOWNSTREAM UP TO  
40 Mbit/s**

**UPSTREAM UP TO  
4 Mbit/s**

## Who is it for?

Operators who have services on the exchanges subject to decommissioning.

## Description of the service

The Fixed Wireless Access (FWA) wholesale access service for areas subject to decommissioning is a service to access the Internet from a fixed user terminal using LTE mobile radio technologies (4G/4G+).

The service is offered exclusively to migrate from the wholesale access services offered by Telecom Italia on the copper network to those offered on the NGA network in the areas subject to decommissioning of the local copper exchanges. The FWA service is designed to ensure that all consumers can migrate to NGA networks and applies to customers who have street addresses in areas subject to decommissioning with copper coverage but no FTTC/FTTH coverage. Once the migration of active copper accesses is complete, the local exchange subject to decommissioning is declared 'CLOSED/DISCONTINUED FOR SWITCH OFF'. It is then no longer possible to activate new accesses either in copper or with the FWA wholesale service for areas subject to decommissioning.

The elements that make up the FWA service are:

fixed user terminal or Customer Premises Equipment (CPE) consisting of an outdoor unit (LTE modem and antenna);

SIM card inserted inside the outdoor unit. Its use is bound to the outdoor unit and the cell/cells serving the End Customer's address. The SIM is enabled for data surfing with peak speeds of 40 Mbit/s downstream and 4 Mbit/s upstream with unlimited traffic. The unlimited traffic component included in the Offer shall be used following the principles of good faith and fairness, refraining from obtaining advantages other than those related to the normal use of the data service. For data traffic, use under the above principles is assumed to be at a maximum of 930 GB per month. Exceeding this parameter constitutes a presumption of non-compliant use of the Offer and, therefore, data surfing will be subject to a lower speed than the standard offer (speed of up to 1 Mbit/s download and up to 1 Mbit/s upload);

Indoor unit (Access Gateway) supplied and installed by the Operator;

Generic data APN reserved for the Operator (such as fwa.oaxx.tim.it).



Learn more at [www.wholesale.telecomitalia.com](http://www.wholesale.telecomitalia.com)

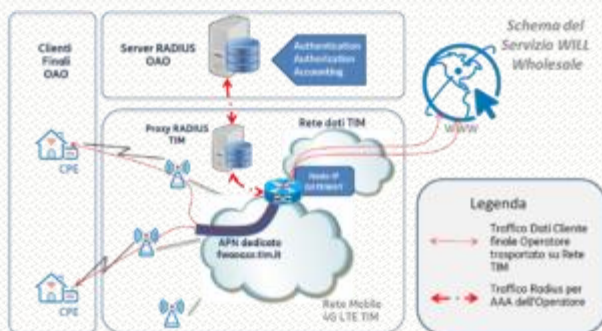
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*WILL service components in the TIM Domain and the OAO Domain*

The CPE is supplied and installed by TIM. The Operator's responsibility is to inform the end customer that the installation may involve infrastructure work for antenna mounting and cable routing and to check and ensure that the infrastructure is suitable for installing the outdoor antenna and the indoor unit. The Operator shall bear the cost of such infrastructure works.

## Service architecture



*Network architecture - WireLess internet Line*

The Operator fully manages the relationship with end customers in terms of Authentication, Authorisation and Accounting (AAA) through its Radius server, interconnected with Radius TIM via the Internet.

TIM offers radio access and manages the end customer's data traffic on its own network. It also assigns the end customer one of the IPv4 addresses provided by the Operator and communicated to TIM when the contract is signed.



Learn more at [www.wholesale.telecomitalia.com](http://www.wholesale.telecomitalia.com)



# FWA for decommissioned areas

## Geographical coverage

The service is only available at street addresses in areas subject to decommissioning of Telecom Italia's local copper exchanges.

## Regulatory Conditions

Fixed Wireless Access (FWA) for areas subject to decommissioning is a regulated service.

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.





# Wholesale Market

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