



Wholesale Market

Code Hosting with TIM Host

From Reseller to Operator to act without intermediaries



Code Hosting with TIM Host

The service is for wholesale customers who wish to offer their end customers carrier grade voice services without investing in their own network.

Service features

Provisioning the Connection:

60 working days in **95%** of cases,

90 working days in **100%** of cases,

Calculated on the number of days between the date of submission of the application and the date on which the Connection is activated, also including the relevant CAC forms

Provisioning for CAC module configuration service:

14 working days in **100%** of cases,

Calculated on the number of working days between the date the order is submitted and the date the module is activated. Such activation shall be after the actual delivery or availability of the relevant Connection and the calculation of days shall take place from the date on which the Connection becomes available.

Assurance Connection (in the event of a blocking failure):

Within **8 working hours** (in the range **8-16 working days**) for Reporting from **8am to 12pm Monday to Friday**;

Within **16 working hours** (in the range **8-16 on working days**) for reporting on public holidays, holiday eves, and **Mon-Fri. outside the hours 8am-12pm.**

Assurance Connection (in the event of a non-blocking failure):

Within **24 working hours** (in the range **8-16 working days**) for Reporting from **8am to 12pm Monday to Friday**;

Within **36 working hours** (in the range **8-16 on working days**) for reporting on public holidays, holiday eves, and **Mon-Fri. outside the hours 8am-12pm.** |

The recovery times indicated do not apply in the following cases:

- 1) Reasons due to force majeure
- 2) Faults caused by third parties



Code Hosting with TIM Host

Who is it for?

The Code Hosting service with TIM Host, is for Operators in the sector who:

- do not have their own network, but are looking to gradually extend their presence in the market for voice services and do not rule out the possibility of acquiring their own network infrastructure by setting up their own telephone switching network,
- intend to offer their customers a telephone service,
- want to operate without intermediaries through self-provisioning tools designed with a wholesale perspective.

Preliminary services

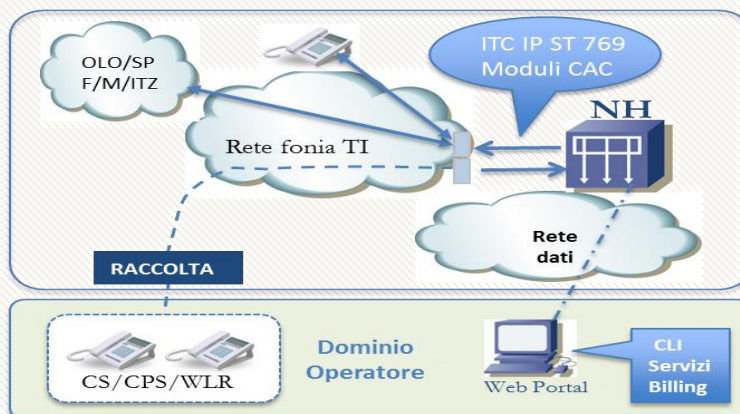
The service is for wholesale customers who wish to offer their end customers carrier grade voice services without investing in their own network.

- Bitstream
- GEA

Description of the service

The Code Hosting service with TIM Host allows Operators without their own telephone network to offer telephony services to their end customers through a special service platform made available by TIM, enabling the virtualisation of the Operator's telephony network.

To implement the Code Hosting service with TIM Host, a Platform has been created on which transmission, memory and processing resources are dedicated to the non-infrastructure Operator subscribing to the service, virtualising the existence of its voice network: the Platform emulates the presence of an Operator's switching node interconnected with TIM's telephone network.



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With this solution, the Operator can provide voice services to its end customers configured in Carrier Selection 'Easy Access' (CS), Carrier Preselection (CPS) and Wholesale Line Rental (WLR).

The CS, CPS and WLR services offer the possibility to collect calls originating from end customers connected to the TIM telephone network using the OP_ID provided by the Operator and of specific routing numbers.

In the case of Infrastructure Operators interconnected with TIM, the calls collected are routed to the Operator's switching network, via the interconnection set up between TIM and the Operator; in the case of the **Code Hosting** service **with TIM Host**, the calls collected are instead routed to the aforementioned Hosting Platform. In particular, for each Operator hosted, a direct interconnection logical channel is provisioned in the same way as for IP interconnection. The difference is that the Operator is replaced and virtualised by the resources dedicated to it on the Platform.

Once the collection provided for within the CS, CPS and WLR services has been carried out, for each call, the Platform checks that the telephone line that originated it is one of those the Operator has configured as enabled for the service. The platform then carries out the switching on behalf of the Operator. After this phase, calls are routed backwards through the direct interconnection logical channel to the TIM voice network, which takes care of any transit and termination.

Please note that reverse logical channels need not be configured between the Platform and TIM's voice network to provide the Code Hosting service with TIM Host. Just one direct interconnection channel is sufficient.

The Wholesale Portal allows the Operator to access the Platform independently and in 'secure' mode for the remote management of the services subscribed to by the Operator.

Enabled functionalities include:

- activation and termination of hosted numbers,
- the management of the enabling and barring profiles for these numbers,
- the recording of amounts;
- the display of traffic statistics,
- the display and download of detailed data relating to customer traffic (traffic cards).



Code Hosting with TIM Host

Value proposition

The 'Code Hosting with TIM host' service proposal features the following elements of interest:

- it offers the possibility to collect, transit and terminate calls originating from the CS/CPS/WLR accesses of the non-infrastructure operator;
- the hosted operator can provide to its end customers CS, CPS and WLR with all the services already provided for a normal voice call, in accordance with the specifications of the national regulations in force;
- the Operator has access to a Web Portal to manage independently the activation, service profile, termination, analysis of volumes and valorisation of the traffic of its end customers.

SLAS

Provisioning of IP_Number Hosting Interconnection Services (ITC-IP-NH, NNI Interface) :

- For each configuration request, the OPERATOR shall send in writing the Plant Plan ('PP') and the Feasibility Study Request ('FS') form, duly completed, to the competent TIM structure from Monday to Friday (excluding public holidays) between 8am and 4pm. Outside these hours, the request shall be charged to the next working day. Only after the successful completion of the FS can the OPERATOR proceed with the relevant orders.

Numbering configuration (Codes, Routing Numbers, etc.):

- 30 working days for Configuration of codes and Routing Numbers (e.g. OP_ID of the OPERATOR) and any numbers related to OPERATOR traffic. If the configuration is requested together with the delivery of an ITC-IP-NH connection, the configuration's delivery time shall commence on the date of delivery of the ITC-IP-NH connection.

Regulatory Conditions

The services described above are aimed exclusively at:

- Operators with an individual license or a general authorisation for telephone 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. 259 of 28 May, 2012. 70.
- Companies with a general authorisation for electronic communications networks and services pursuant to Art. 25 of the above-mentioned Italian Legislative Decree no. 259/2003, as last amended by Italian Legislative Decree no. 70 of 28 May 2012 70.





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Entry in the Register of Producers of Electrical and Electronic
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Share Capital €11,677,002,855.10 fully paid-up