



CODE HOSTING

From Reseller to Operator to act without intermediaries

Code Hosting

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

SLA	SLA	SLA
<p>Provisiiong</p> <p>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</p> <p>Provisioning for CAC module configuration service:</p> <p>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.</p>	<p>Assurance Connection (in the event of a blocking failure)</p> <p>Within 8 working hours (in the range 8-16 working days) for Reporting from 8am to 12pm Monday to Friday;</p> <p>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.</p>	<p>Assurance Connection (in the event of a non-blocking failure)</p> <p>Within 24 working hours (in the range 8-16 working days) for Reporting from 8am to 12pm Monday to Friday;</p> <p>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. I</p>

Who is it for?

The Code Hosting, 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.

Code Hosting

Preliminary services

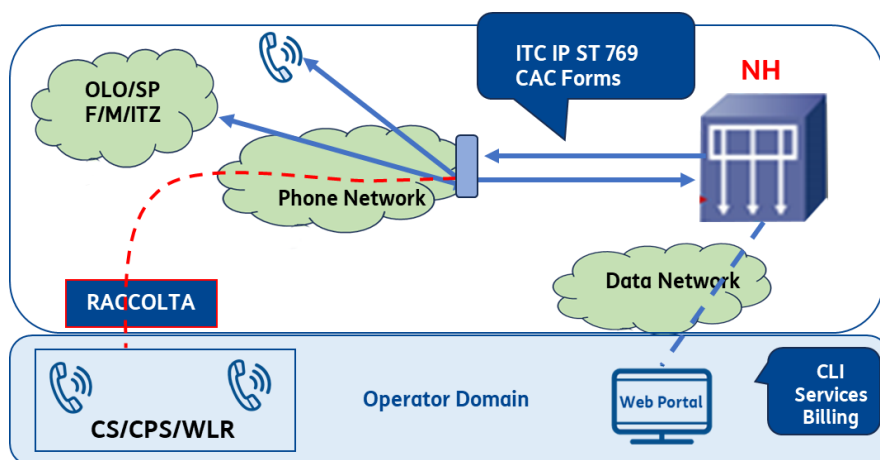
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- Bitstream
- GEA

Description of the service

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

To implement the Code Hosting, a Platform has been created on which transmission, memory and processing resources are dedicated to the non-structured 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 telephone network.



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 telephone network using the OP_ID provided by the Operator and of specific routing numbers.

Code Hosting

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 FiberCop and the Operator; in the case of the **Code Hosting** service, 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 envisaged within the WLR service has been carried out, for each call the Platform verifies that the telephone line that originated it is included among those that the Operator itself has configured as enabled for the service, and carries out this on behalf of the Operator switching. Once this phase has been passed, the calls are routed backwards, through the logical direct interconnection channel, towards the voice network, which takes care of their possible transit and termination.

It should be noted that, for the purposes of providing the Code Hosting service, it is not necessary for reverse logical channels to be configured between the Platform and the telephone network, but the existence of a single direct interconnection channel is sufficient.

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

Enabled functionalities include:

- activation and termination of hosted numbers;
- the management of traffic 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

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.

More to know

For the purposes of managing individual end customers relating to the WLR service, the use of geographical numbers owned by the hosted OLO is not foreseen: native TIM numbers are also used for new WLR customers.

Since the WLR lines are technically connected to the TIM telephone network, the bodies and authorities in charge will be able to directly request TIM to carry out particular tasks and obligations under current regulations, such as legal interception.

Code Hosting

To carry out these tasks, TIM will be able to use all the tools and resources it already has at its disposal within the scope of the aforementioned offers.

In the case of the WLR service, the end Customer is formally a customer of the Hosted Operator, who is consequently called upon to fulfill all the obligations established by the regulation for the implementation of the Operator Change processes. In particular, the Hosted Operator must comply with the provisions of resolution 274/07/CONS and all subsequent related resolutions.

In fact, even if the Hosted Operator did not consider the commercial opportunity of acquiring WLR customers from other operators (as recipient), but limited itself to offering them the service for the first time (e.g. WLR on a non-active line) or by acquiring them from TIM (e.g. WLR on an active line), it would still be subject to the obligations established by resolution 274/07/CONS, as a donor (such as for example the commercial management of the migration codes assigned to customers).

These obligations are punctuated through an exchange of notifications between the interested operators.

Also due to the strict regulation of the sector, Fibercop does not offer Hosted Operators the management of the exchange of notifications on their behalf but, functionally to the execution of the obligations set out above, through the Web Portal it offers them the tools to manage the amounts in harmony with the reassignments provided for by the regulation.

It follows that the Hosted Operator must equip itself with its own IT platform to fulfill the obligations set out in resolution 274/07/CONS. The Hosted Operator will obviously be free to make use of or acquire appropriate technical solutions to guarantee the correct exchange of notifications between the interested operators according to current regulations. Fibercop, through its supplier Connecting Project, can provide the aforementioned platforms for sale or in SaaS mode.

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.

 FiberCop