



Wholesale Market



Line Fast Check



Automatic query of the TIM diagnostic system for malfunctions on access lines



TIM

Line Fast Check

The service managed on an API in M2M mode provides data on the functionality of the lines: Alignment Parameters, Degradation Measurements, Termination Equipment Status and Delivery Kits.

Service features

Service profiles

Maximum number of requests/month

1500 to 100,000

Who the service is for

Line Fast Check is designed for all Operators with consistent Bitstream, Bitstream NGA, VULA, Easy IP NGA access.

With Line Fast Check, operators can improve the effectiveness of their assurance processes being able to automatically feed systems with diagnostic information; render customer care measures more efficient and prompter, as well as reducing the number of IAVs for TIM (IAV - Interventi A Vuoto, unnecessary interventions).

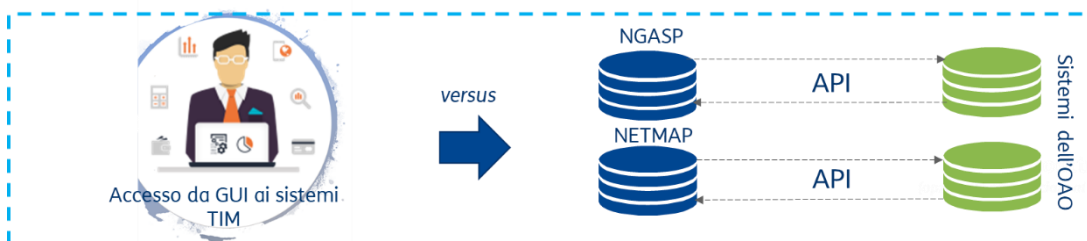
Preliminary Services

Bitstream, Bitstream NGA, VULA, Easy IP NGA

Line Fast Check service description

The service allows you to use API to query in M2M mode:

- **NGASP system** in order to find information on malfunctions of the lines, replicating in this way some of the functions already available to GUI NGASP;
- **NETMAP system** for covering address-based access services by providing an alternative mode to the NETMAP GUI.



The first APIs made available return the following information:

- **Alignment API**, or alignment parameters
parameters: up/down attenuation, up/down current speed, up/down maximum speed, alignment mode, retransmission, up/down noise margin, etc.



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❑ **Degradation API**, or degradation measurements

Observation window start-end date, error seconds, severely error seconds, status changes, measurement result, etc. Provides all the KPIs with which the degradation of the copper section is determined for FTTC services and the Line Quality functionality in line with what is shown on the NGASP GUI

❑ **API Resource Status A-point**, or the termination devices on the end customer side and central side Node status, XTU-C ATU-C status, XTU-C ATU-C alarm, XTU-R ATU-R status, XTU-R ATU-R alarm, Line status; also enriched with the date / time of the last change of operating status of the line and the indication of the presence of a Master on an access device, as is already the case for the info present in the NGASP GUI

❑ **API Resource Status Z-point**, or delivery kit status

Ethernet node operating status, ATM node operating status, NAS PE operating status

❑ **API GeTAccessList** allows you to obtain the list of Operator telephone numbers attested to a specific access device, ADSL or FTTC. This API together with the indication of the presence of a Master (described below as an enrichment of the Resource Status A-point, allows to realize the Plurimi functionality: detected a multiple disservice through the indication of the presence of a Master and extracted the list of lines involved , it is possible to develop informative messages to the customers involved.

❑ **API SELT**, only for FTTC VDSL accesses, provides, through a reflectometric measurement, the estimate of the distance from the UN-CAB of a discontinuity present along the copper line (e.g. an interruption) providing an indication of probable location of the problem if at the R.L. o next to / inside the final customer's premises. The diagnostic trees can make the API call and acquire the outcome at the time of inbound contact with the customer by directing diagnostic paths consistent with the response of the API calls.

The service managed on API in M2M mode provides data on the functionality of the lines: alignment parameters, degradation measures, termination equipment status and delivery kit.

The service is free for the first 4 APIs based on a maximum number of queries for each API.

The maximum number of queries is determined on the basis of the following parameters:

- **Operator customer base**, relating to accesses for which NGASP diagnostics are available;
- historical queries regarding **NGASP system usage**;
- **number of TTs open** in relation to the accesses referred to in the previous point.



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With the NETMAP APIs, the Operator can directly view on their systems the information necessary to proceed with the technical coverage checks functional to sending orders for the supply of TIM Wholesale access services

The NETMAP APIs made available return the following information:

- **GetCoverageAddress:** the query on an address basis provides the corresponding coverage response for all regulated access services;
- **GetCopertuta_ETHoFO_IP:** the query on an address basis provides for the coverage response relating only to the "Terminating Ethernet in Optical Fiber and services that are based on the same plant chain as the Terminating" (eg GEA and IPgate).

Prices

By signing the Line Fast Check service supply agreement, for the first 4 NGASP APIs (Alignment, Degradation, Resource status A-point, Resource status Z-point) a predefined number of free invocations is provided based on the number of lines in consistency of the customer and the rate of open reports on the same.

If an additional number of queries is required compared to the free ones provided or if the **GetAccessList** and **SELT API Netmap** are required, paid profiles are available which vary according to the maximum limit of queries that can be used in the calendar month. For NGASP APIs, the maximum number of paid queries must not exceed **5 times** that of the free profile.

A monthly fee and a UT configuration contribution are applied for each paid profile.

Even if not all the queries foreseen in the monthly ceiling are used, **the fee is applied in full.**

Upon reaching the maximum number of invocations before the end of the month, the service is suspended until the beginning of the following month





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