GPONDOCTOR autofinder

FTTH analysis & monitoring tools

GPONDOCTOR



FTTH installation Auditor

DESCRIPTION

Fiber optic networks continues to multiply exponentially, and, in several regions, one every two homes already have an FTTH connection.

Several hundreds of millions of connections within the "Access Network" link the customer to its correspondent port within the Telecom Operator Headend.

Telecom Operators rely on contractors to deploy their fiber connections to the home. And though everything is well planned and executed, it is not rare to see customers not connected to the right port.

This is difficult to detect because even if the customer is connected to a different port, it is still registered, and services are provisioned as if it were in the right position. But once a problem arises — it will might take ages to locate where this customer is located and troubleshoot it accordingly.

A situation that could be affordable for one user but as the number grows, it becomes a REAL NIGHTMARE for field engineers leading to an uncontrolled OPEX and CHURN.

FTTH Network auditing it is the best way to have a faithful documentation and keep your OPEX under control

Audit your FTTH in 1 click

GPONDoctor™ autofinder gathers all information from the PON needed to verify that each optical network termination is connected to the correspondent PON port as stated in the FTTH deployment documentation. With an easy to use interface any technician is ready to use it from the very first day. All the data obtained by GPONDoctor autofinder can feed any Cloud and complement the data provided by the OSS. Any deviation from the planned deployment is fast identified and its key to get "As-Built" documentation.

100% independency from NMS

GPONDoctor™ autofinder does not require to be registered in the OLT. Thus, it does not interfere in the upstream direction. All data is gathered in a completely "Passive" way. Installation + Maintenance departments can audit the network without the need to be supported by the FTTH Operator OSS department.

"Cross-connections" identification
The most common problem during network
deployments is "CROSS-CONNECTIONs".
GPONDoctor autofinder allows to solve it by
identifying, in less than a minute, where any Fiber
Termination location within the PON distribution
network (ODN) is connected to.

Accurate Power Meter

GPONDoctor™ autofinder measures the Optical Power received (1490nm) with a precision compared to professional power meters (max uncertainty +- 0.5dB, check table). As the OLT advertises the output power is possible to know attenuation of the ODN up to that point.

Point of Measurement GeoLocation

As it is of prime importance to link the data with the installer position, GPONDoctor autofinder includes the GPS coordinates where the measurement was taken from. Other data about the location can also be added.

PON Audit

GPONDoctor™ autofinder is also capable to get all the Serial Numbers of the ONUs connected to the PON Port as well as their state "Active/Deactivate"

Simple User Interface

Any popular Web browser at your SMART PHONE, TABLET or LAPTOP allows to get full control of GPONDoctor autofinder (through WIFI/Ethernet).

Portable and Autonomous

Small (11x11cm) with a weight of less than 0,5Kg and with the option of a Power bank

NEW FEATURE "ROGUE ONU"

Any PON should quickly identify the presence of Rogue ONUs in the PON and isolate them before they impact in their customers Quality of Experience. GPONDoctor autowinder has a "Rogue ONU" emulation mode to check the behavior of the OLT under the presence of such devices.

INTERFACES

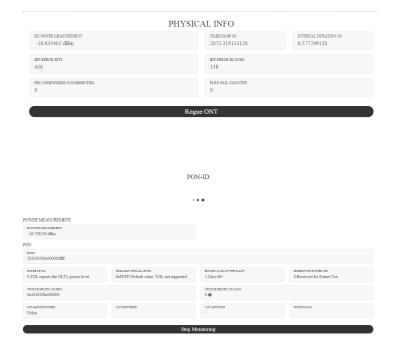
- GPON Downstream: Single mode: 1490nm (2.5Gbp) module.
- GPON Upstream: Single mode 1310nm (1.25Gbps)
- Ethernet: Gigabit LAN port
- · Wi-Fi (Optional)
- LED Dimming
- Power Bank (Optional) 12DC and USB outputs (120/240V AC input)

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NETWORK AUDIT

ONU-ID	Serial Number	State
0	454443525010ADE8 / EDCR-5010ADE8	Active
1	5841564900000028 / XAVI-00000028	Active
2	414C434CFAB85C56 / ALCL-FAB85C56	Active



LATITUDE 43.254055199999996		LONGITUDE -2.945269799999997		
POSTAL CODE * 488	CITY Zalla	STREET * Jose Etxezarraga N1		
SP-011	PORT *	CONDENTS Connectors in bad conditions		
Download Report				

Rogue ONT

Disable Rogue ONT





RX Power Force 1490nm	Measured RX Power	Error (dB)
-35dBm	-35,23dBm	0,23 dB
-33dBm	-33,01dBm	0,01dB
-30dBm	-30dBm	0 dB
-27dBm	-26,99dBm	-0,01dB
-20dBm	-20dBm	0 dB
-10dBm	-9,98dBm	-0,02dB
-9dBm	-9dBm	0 dB

CONTACT INFORMATION

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