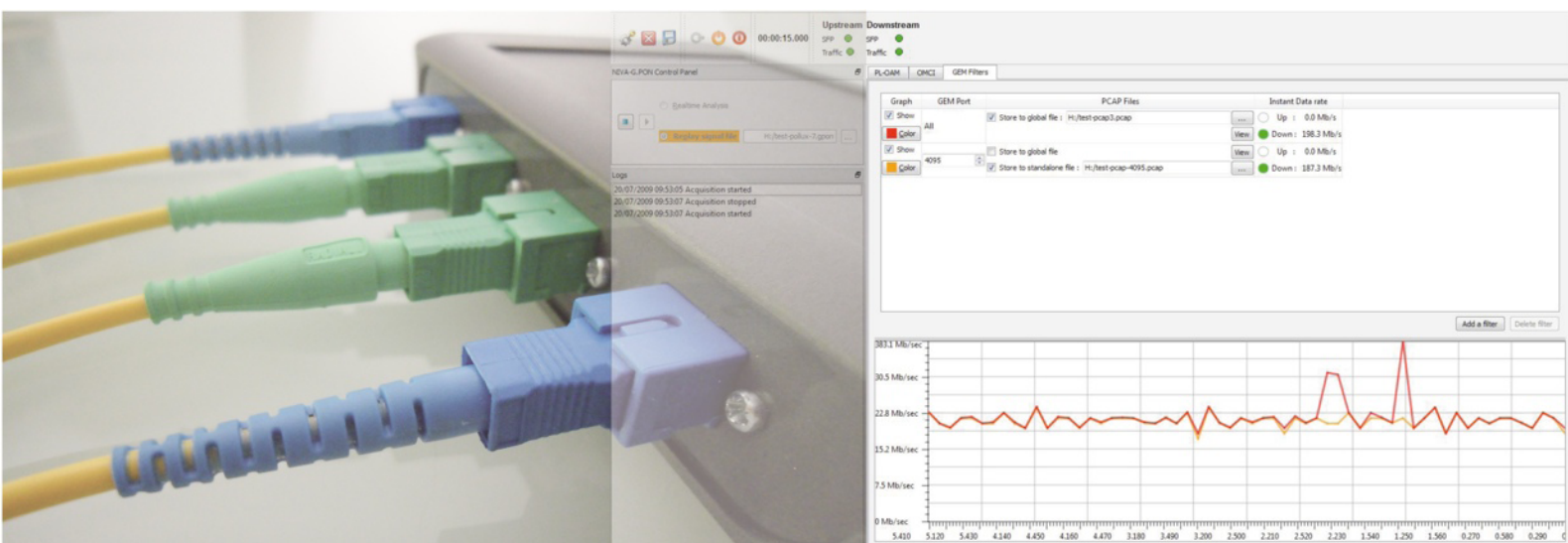


Real Time FTTH G-PON Analyzer

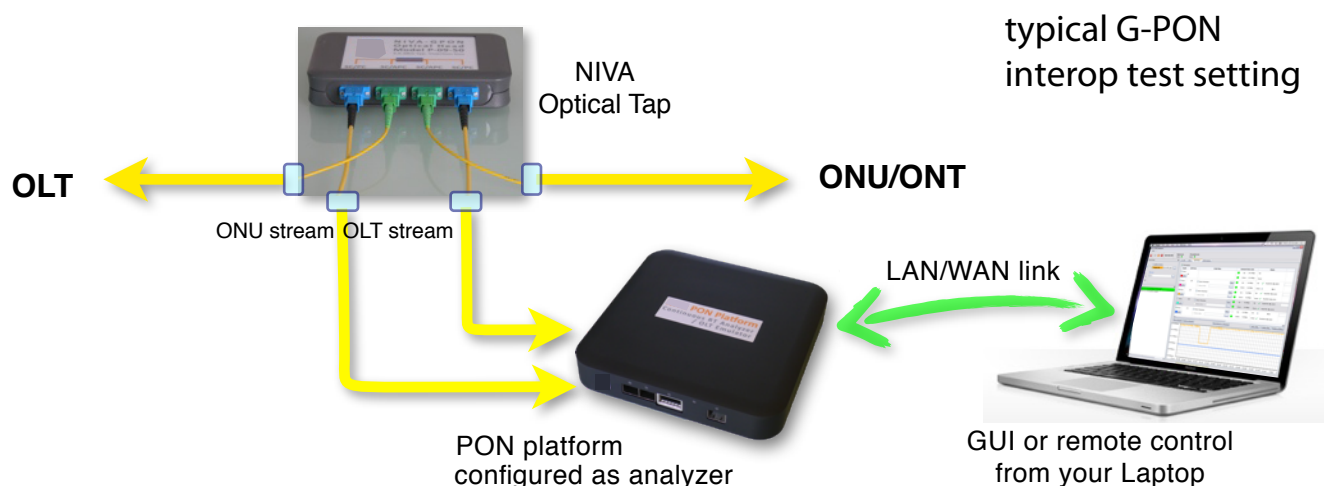
NIVA-GPON Analyzer License



« Monitor and analyze in Real Time
all the information of a G-PON link »

WAVETEL
Espace du Ter
13 Bd Jean Monnet
56260 Larmor-Plage





The **G-PON NIVA Analyzer** license allows to configure and use the **PON Platform**, our high performance FPGA-based processing unit (see corresponding data-sheet), as a G-PON NIVA Analyzer kernel. The G-PON NIVA kernel is controlled from a dedicated NIVA client GUI software installed on a regular PC.

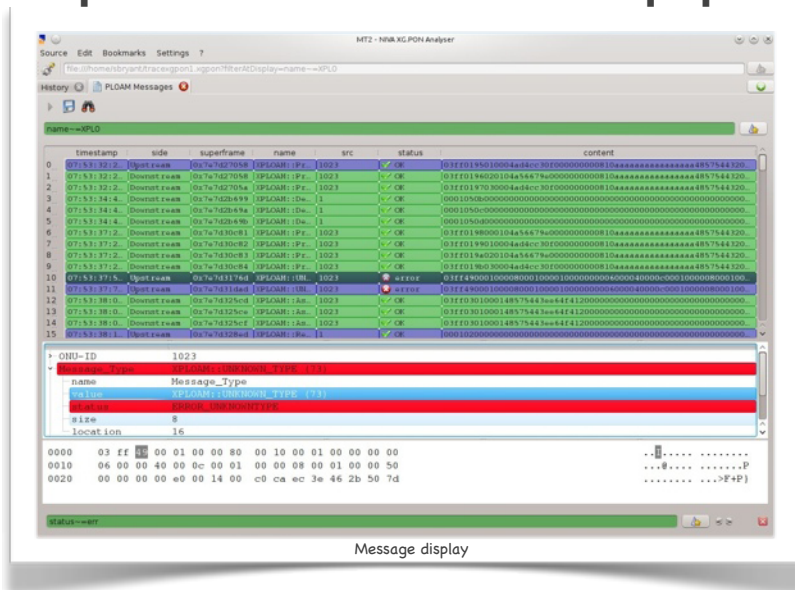
NIVA stands for Non-Intrusive Viewer Analyzer: our **NIVA G-PON solution** (PON platform + G-PON NIVA analyzer license) provides a non-intrusive analysis and monitoring tool, optimized for continuous real-time analysis and display. This important feature provides a unique ease of use for day to day lab testing.

The GUI, which builds on the strength of our NIVA series, offers all the ease for an immediate or deferred analysis as well as the creation of reports. Its use is simple and intuitive, with a clear data presentation.

The deep and detailed OMCI&PLOAM messages analysis makes the **NIVA G-PON** a complete tool for performance analysis, standard compliance and interoperability tests.

Its Client-Server architecture provides the highest flexibility for remote control and third party tools integration.

A perfect tool for G-PON equipment validation !



- No G-PON-specific chipset.
- Accurate data recovery for upstream bursts.
- Decoding according to ITU **G.984.x** standards.
- **Deep analysis** of exchanges for **PLOAM** and **OMCI** messages, with errors highlighting.
- **Remote control** through TCP/IP, allowing automated testbench.
- **DBA analysis**, follow-up of upstream bandwidth allocated for each ONU/Alloc-ID.
- Optional **raw data recording**, for offline analysis/replay.

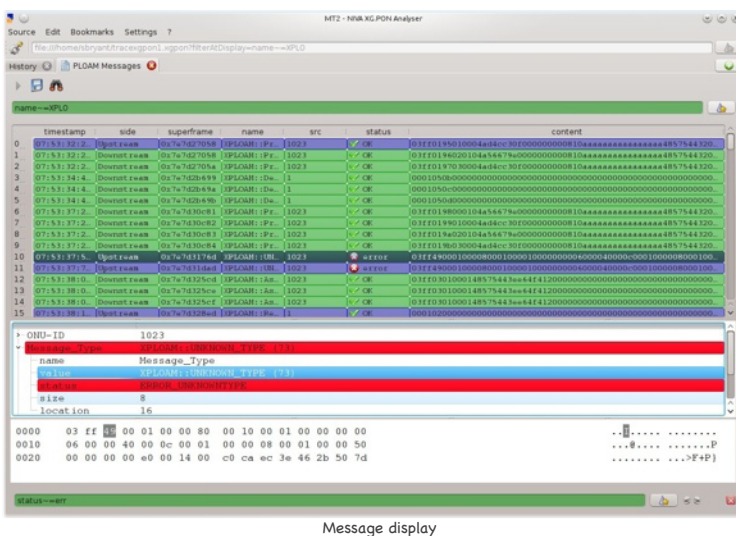
The comfort of a Real Time monitoring tool for Interop testing !

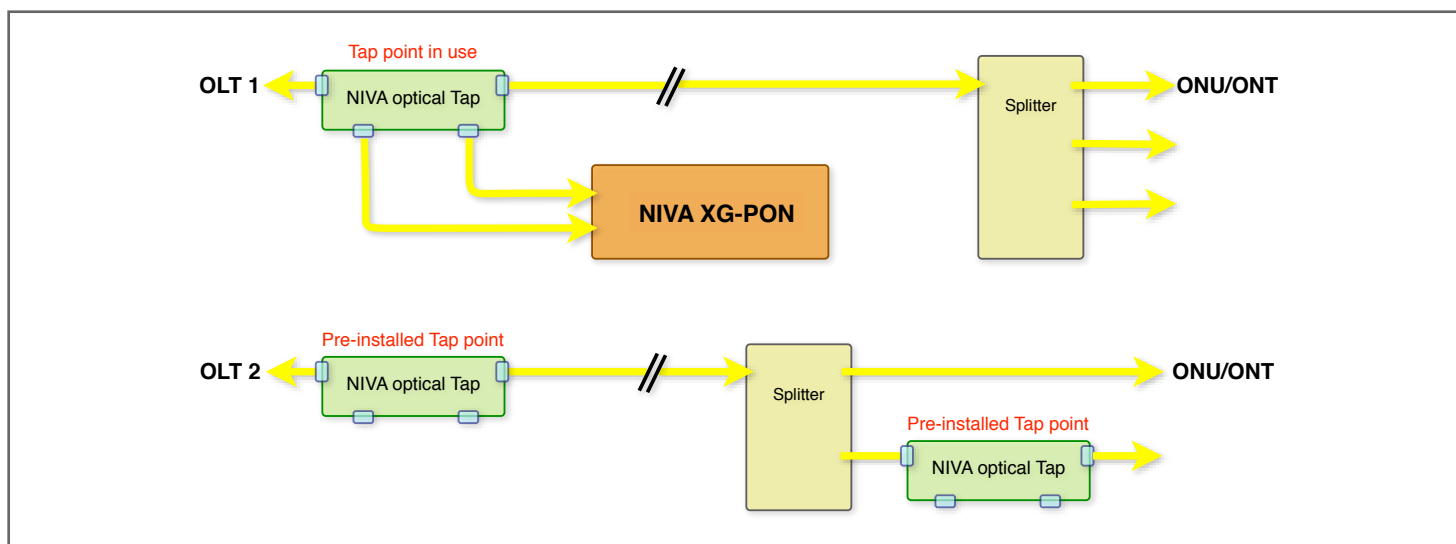
- Native Real-Time acquisition and decoding.
- Simple/Clear GUI, **Plug and play**, no calibration setup.
- Immediate monitoring** of the PON events (ONU ranging, authentication, OMCI MIB setup ...).
- OMCI diagram generation** for browsing the actual MIB in place.
- Automatic discovery of GEM ports and VLAN-IDs**, with bandwidth graph.
- Ethernet Data Replication** for IP-level analysis.
- Complete **XML export** for PLOAM and OMCI exchanges.



So useful for field expertise & troubleshooting

- Completely **passive optical tap** ONT or OLT side.
- Follow-up of **OMCI alarms**.
- Filtering** of PLOAM and OMCI messages according to types and ONU-ID.
- IP-level **export to PCAP files**, including powerful filtering.
- Ease of transport (**compact appliance**), and remote control from a laptop.





Unique : Separate Optical Heads allow Pre-installed Tap points for future non intrusive connexion of the NIVA G-PON.

As well as for performance measurements, service quality evaluation or troubleshooting of G-PON links,
NIVA G-PON is the best choice for:

- ➔ Equipment validation,
- ➔ Interoperability tests,
- ➔ Field expertise.

Choose the license you need!

By selecting the right license, you can configure your MT2 PON Platform to satisfy different analysis and testing needs: Analyzer/Emulator, GPON/XG-PON, ...

Standard \ Function	Analyzer	OLT Emulator	OLT Emulator + Debug
XG-PON	✓ NIVA-XGPON*	✓ eOLT-XGPON*	✓ eOLT-XGPON-Debug*
GPON	✓ NIVA-GPON*	✓ eOLT-GPON*	✓ eOLT-GPON-Debug*

*: Detailed description, for each available software license, is provided in their respective datasheet

PC requirements

Many computers can satisfy the needs for NIVA G-PON GUI in terms of power and hardware capabilities. Contact Wavetel for more information. NIVA G-PON runs on Windows or Linux.

