

General features

- Central Equipment for GPON networks
- 100% self-managed and autonomous
- Avoids the need for aggregation network equipment
- Two ways of transport interface: 10G or 4x1000Base-T
- Reduced cost per GPON port
- Reducing the entry barrier of investment in a GPON

Ethernet/GPON Features

- Network access Control per user
- QoS oriented adaptive DBA
- Capacity to allocate bandwidth for each TCONT
- Traffic granularity: Per second / millisecond
- "Surplus" traffic Balancing
- OMCI Provisioning for each ONT
- 802.1ad, 802.1Q, 802.1p support different VLAN scenarios
- IGMPv3 Multicast Proxy
- FEC coding
- Standard AES-128 encryption

Interfaces

- 4x SFP GPON ports
- 1x SFP+ 10G transport Port
- 4x GbE 1000Base-T electrical transport ports (1 per port GPON)
- 1x Ethernet management port
- B+ and C+ Optics available.

Technical features

- Size: 1UA x 19"
- Power: direct 220V or -48V

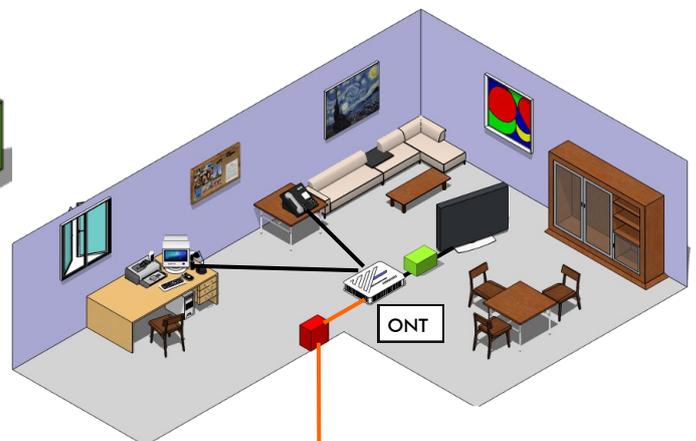
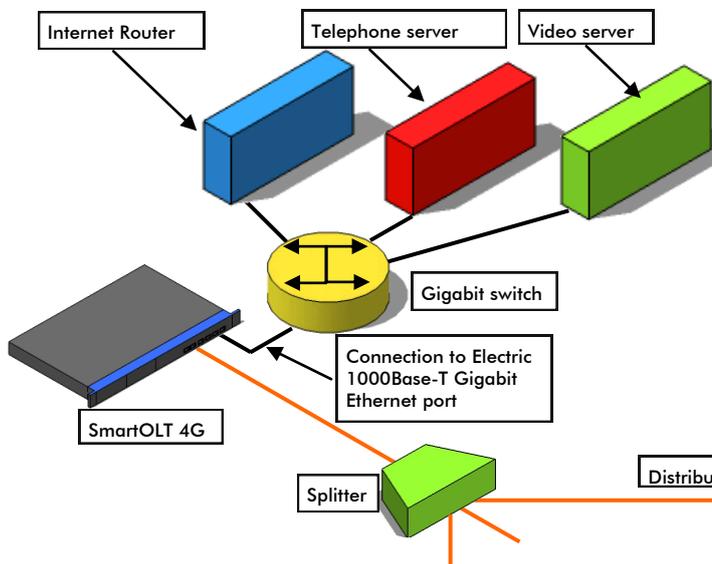


Complete CLI management system

- End to End VLAN Profiles
- Service profiles
- Bandwidth profiles
- Customer profiles with services
- Assigning profile to a new customer in just 2 commands
- SIP parameter management of each user

Telnet GPON Management System

- Access and web management all OLTs, and ONTs PONs of the operator
- Easy and intuitive visual interface for managing the operator ONTs
- Intuitive, graphical management of new subscribers and its profiles of subscribers
- End to End VLAN Profiles
- Service profiles
- Bandwidth Profiles
- Customer profiles with services
- SIP parameter management of each user



Stepped investment according to needs

The Telnet Redes Inteligentes SmartOLT is an equipment designed for operators who want to implement GPON FTTH network harmonizing deployment costs with new subscribers. Indeed, in any FTTH deployment is critical the initial investment required to serve the first subscribers, forcing the operator to make significant expenditures in equipment when customer volume is still small.

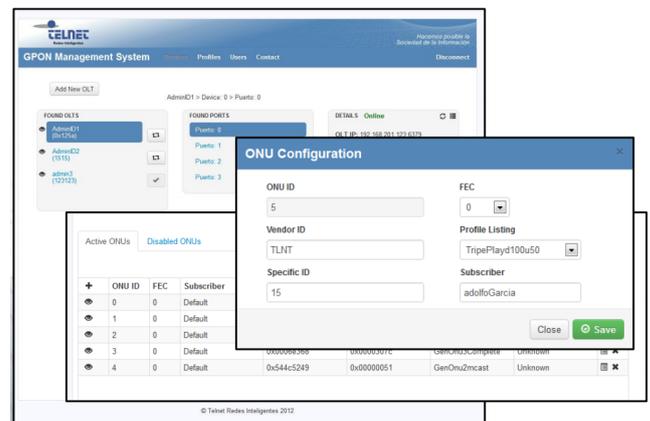
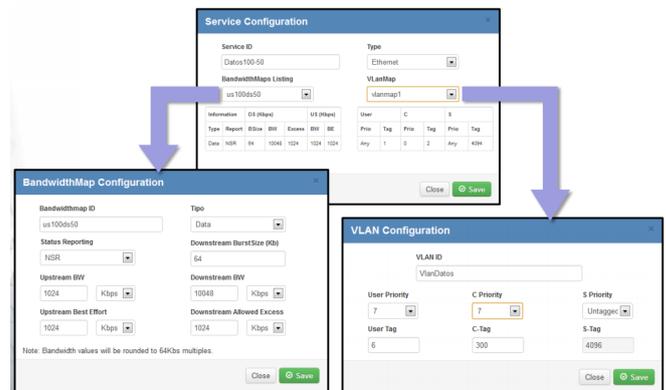
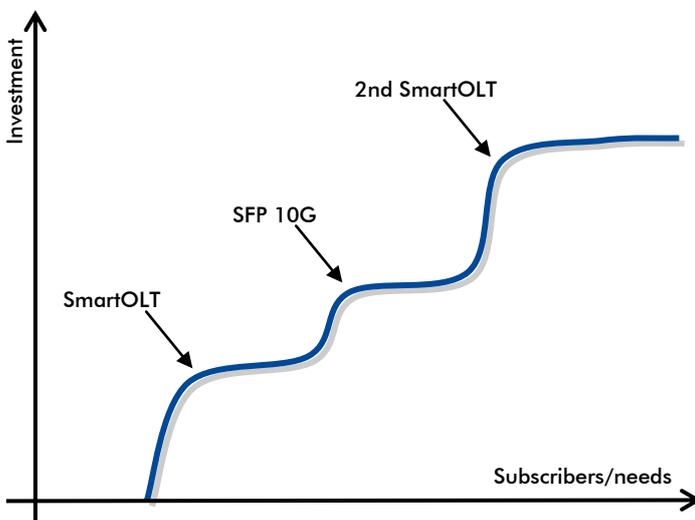
With minimal start-up budget, SmartOLT allows the operator to serve GPON to early customers, and in stages, extend the capabilities of the equipment gradually to attract new subscribers. This is possible thanks to three distinguishing and unique TELNET features: Ethernet traffic aggregation and processing capacity in the very SmartOLT, modularity of GbE and 10G and the centralized management architecture provided by the TELNET GPON Platform Management System.

Capacity of aggregation and Ethernet traffic

The TELNET SmartOLT includes all the features essential for treatment of traffic from/for users at the level Ethernet. Natively, without additional costs, the SmartOLT supports in all ports features 802.1p (Class of Service), 802.1Q (VLAN), 802.1ad (QinQ VLAN) and IGMP v3 (multicast video). The main advantage of this feature is that the operator no longer has to invest in a Gigabit or 10G Ethernet switch dedicated to aggregation and management of service quality.

Modularity of GbE and 10GbE ports

The SmartOLT modularity of GbE/10G ports facilitates connection to the operator systems. In its standard configuration, the TELNET SmartOLT has four Gigabit Ethernet electrical ports (RJ-45). Each of these ports is connected to one of the four ports available PON. This means that to start a GPON network the operator only has to worry about having a GbE port "free" where SmartOLT connects. When the operator wishes to extend the connection of their systems to SmartOLT at 10G speed, simply acquire a low cost 10G SFP+.



Centralized management architecture

TELNET GPON Management System allows you to manage in a unified way tens of SmartOLT as if they were a single system.

This management system creates profiles of ONTs with services for each range of services in its portfolio by the operator, such as telephony, video, data, double-play or triple play, allowing later to be assigned to the ONT of a subscriber contracting those services quickly and intuitively.

It also offers the possibility to see the status of the ONTs available in each PON, its status and services it has assigned at any time.

This management system is particularly aimed at usability and ease of management of the subscribers, being very simple the creation of profiles and the discovery of new subscribers' ONTs to assign these profiles and start to serve them in an easy fast.

The centralized management of OLTs functionality allows the operator to increase its network capacity by just adding a new SmartOLT to its rack and, with a single mouse-click export user profiles and service offers. Furthermore, this modular architecture provides significant advantages to the operator as there is no a singular point of failure since each SmartOLT is independent in its feeding needs, monitoring and treatment of Gigabit Ethernet traffic.