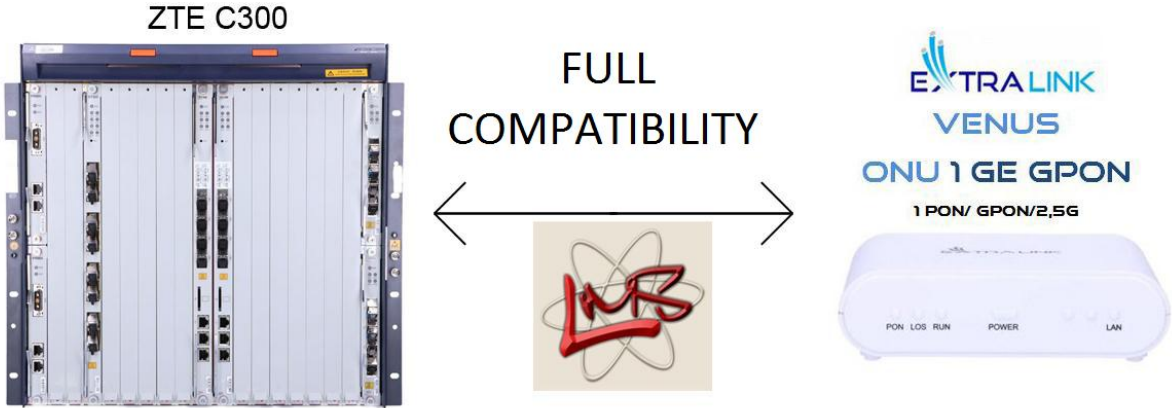In order to meet the expectations of our clients who build GPON networks based on ZTE OLTs in LMS platform (Lan Management System) we've created authorial improvement to LMS. This improvement allows easy authorization, registration and management of CPE (Customer Premises Equipment) Extralink 1GE ONU GPON VENUS.

ZTE C300

FULL COMPATIBILITY

EXTRALINK
VENUS
ONU 1 GE GPON
1 PON/ GPON/2,5G

ONU 1 GE GPON

1 PON/ GPON/2,5G

PON LOS RUN   POWER   LAN

LAN   RESET   POWER   ON/OFF

Extralink 1GE ONU GPON VENUS is a CPE device functioning in GPON technology. It has one PON and one Gigabit Ethernet port.

Extralink 1GE ONU GPON VENUS operates in **bridge** mode and it is fully compatible with- IEE 802.3-2005 and GPON standard. The device can also provide high-speed data transmission for its clients.

Below in the table there are some key features of the product:

1x GPON port (uplink 1.25Gbps / downlink 2.5Gbps)   **1x Gigabit Ethernet port (10/100/1000Mbps)**
Compatibility with the IEEE802.3ah standard
Layer 2 support
Support of 802.1Q VLAN, VLAN conversion support
Support of the Dynamic Bandwidth Allocation (DBA)
Quality of Services
IGMP Snooping
Auto-loop detect
Power failure alarm
Power supply 12V DC
Maximum power consumption: 4W

LMS easily finds VENUS device. Thanks to it, Extralink 1GE ONU GPON VENUS can be remotely registered. After registration the device runs its services for the clinet.

In general, change is all about correct decoding of CPE serial number.

All ONU devices, which are based on this method, will be detected correctly.
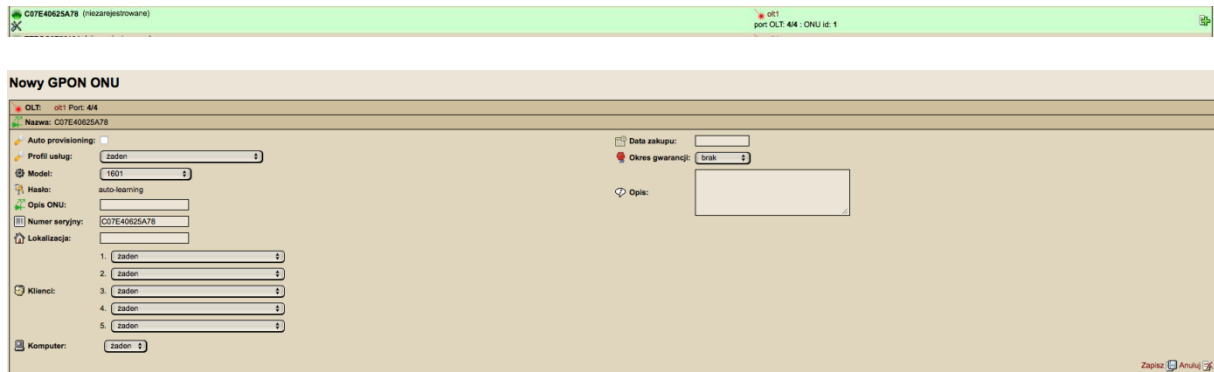
This change involves a few simple steps based on the checksum of the original file:

1. If the checksum of the original file in particular installation will be compatible, then you only need to replace the file.
2. If the checksum is different, you replace the file on your own risk.
3. If you are afraid of change, feel free to contact us. We will try to introduce an amendment to the specific installation.

The checksum of the original file: 51f3ca0886f7c61cf74bda96b4d19918

File path: $LMS./plugins/LMSGponZtePlugin/lib/GPON_SNMP.class.php

Due to the numerous queries concerning registration of **Extralink 1GE ONU GPON VENUS** in **C300** and **C320 ZTE OLTs**, below we attach sample configuration for ZTE C300, which enables troublefree registration of the device.

```
ZXAN>enable
Password:
ZXAN#
ZXAN#configure t
ZXAN(config)#show gpon onu uncfg gpon-olt_1/2/1          //Detect which ONU hasn't been successfully registered yet


OnuIndex          Sn          State
--------------------------------------------------------------
gpon-onu_1/2/1:1      GPONE4801674      unknown

ZXAN(config)# pon
ZXAN(config-pon)# onu-type glcom gpon description 1FE          //Define the ONU type "glcom"

ZXAN(config-pon)# onu-type-if glcom eth_0/1                    //Define ONU's port


ZXAN(config)#interface gpon-olt_1/2/1
ZXAN(config-if)#onu 1 type glcom sn GPONE3500410              //Register ONU
ZXAN(config)#gpon                                            //Enter GPON mode
ZXAN(config-gpon)# profile tcont 100m type 1 fixed 1000000   //Create uplink bandwidth template


ZXAN(config)#interface gpon-onu_1/2/1:1

ZXAN(config-if)#tcont 2 profile 100m                         //Configure TCONT bandwidth

ZXAN(config-if)# gemport  1 name g1 unicast tcont 2 queue 2   //Set GEM Port

ZXAN(config-if)switchport mode hybrid vport 1
ZXAN(config-if)service-port 1 vport 1 user-vlan 1 vlan 1      //Configure virtual ports- VLAN

ZXAN(config)#interface gei_1/19/1
ZXAN(config-if)#switchport mode hybrid
ZXAN(config-if)#switchport vlan 1  untag

                                                             // Remote management and configuration mode of ONU
ZXAN(config)#pon-onu-mng gpon-onu_1/2/1:1
ZXAN(gpon-onu-mng)#service 1 type internet gemport 1 vlan 1
ZXAN(gpon-onu-mng)#vlan port eth_0/1 mode tag
```