Setup guide for OLT and ONU in Default Configuration

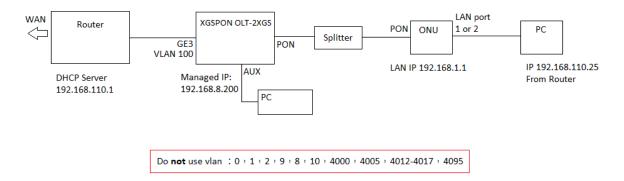
AirLive XGSPON OLT-2XGS and ONU-10XG(S)-1001-10G



How to Setup the OLT and ONU in combination with a Router.

For the setup an AirLive GPON OLT-2XGS and an Airlive ONU-10XG(S)-AX304P-2.5G was used.

The setup is following the below diagram, please do **not** use VLAN: 0, 1, 2, 9, 8, 10, 4000, 4005, 4012-4017, 4095.



Setup Steps:

- 1: Login to the OLT management web interface. The default IP is 192.168.8.200 using the AUX port. Make sure the PON mode is the correct one for the ONU used.
- 2: If we want to configure ONU access the Internet, we need to create a VLAN in OLT first.
- 3: Create a VLAN 100 (for this example) for Internet.
- 4: VLAN bindings for uplink GE port

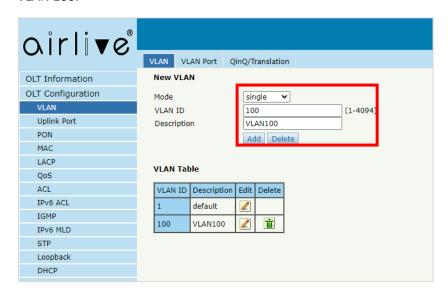
please note: If the uplink port is in the untag mode, PVID (default vlan id) needs to be configured (100 in this example).

- 5: Open ONU list page, Select the PON port where ONU is located. Find out what ONU you want to configure. Check the ONU status and ensure the ONU is in Online state.
- 6: Click on the ONU configuration page to configure "tcont", "gemport", "Service", "Service Port" and other parameters.
- 7: As the ONU is a SFU the Ethernet port needs to be setup directly.

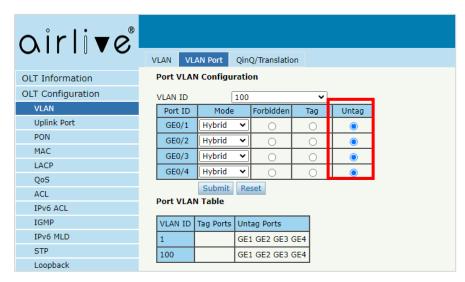
 On the "PortVlan" page, for ONU, the Mode needs to be configured for "Tag", PortType needs to be configured for "Eth" and Port Id needs to be configured for each of the ethernet ports of the ONU in this case the ONU has 2 LAN ports for both need to be setup here. First Enter "1" for LAN port 1, then enter the VLAN ID which in this example is 100 and press commit. Now the same thing needs to be setup for LAN port 2. Follow the same steps but now enter "2" at Port Id and press commit again. Now both ports are connect to Internet.
- 10: Press "SAVE" in the top bar of the OLT so save the complete configuration.

A computer connected to the ONU will now receive a IP address from the Router. In this example in the range of 192.168.110.x.

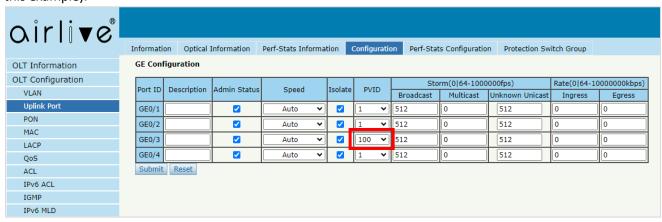
1: In the OLT Configuration select "VLAN" and make a VLAN ID in this example we make VLAN 100.



2: Bind the Uplink GE port go the "VLAN" >> "VLAN Port", in this example all ports were binded to the VLAN 100. Make sure the Uplink is in "Untag" mode.

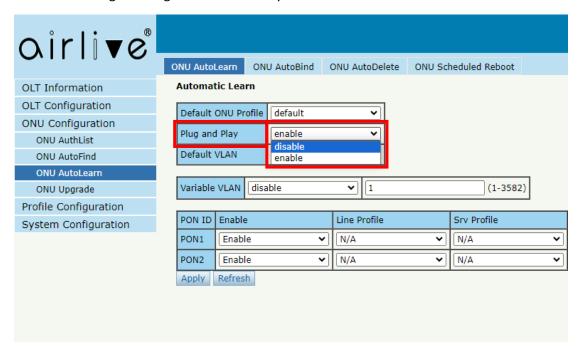


3: When the Uplink port is in "Untag" mode, the PVID (default VLAN id) needs to be configured. Go to "Uplink Port" >> " Configuration". Change the PVID for the uplink to 100 (in this example).



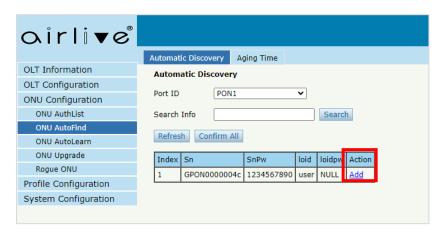
4: Adding the ONU to the OLT. These steps are only needed when the ONU is not auto detected.

Note: By default in "ONU AutoLearn" Plug and Play is enabled. This means that when a SFU ONU like the ONU-10XG(S)-1001-10G is connected it will automatically file in configuration information like Tcont, Gemport ect. If these settings are different from the ones you want to use then you need to edit them. When you do not want the automatic function then please Disable the "Plug and Plug" function before you connect the ONU.

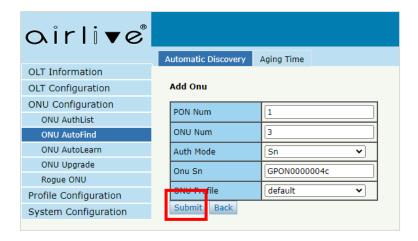


Make sure the ONU has been connected to the OLT via its PON ports and a Splitter. Click ONU "AuthList" it could that your ONU has been automatically added, if this is the case you can go to step 5 directly. If not follow that steps as below.

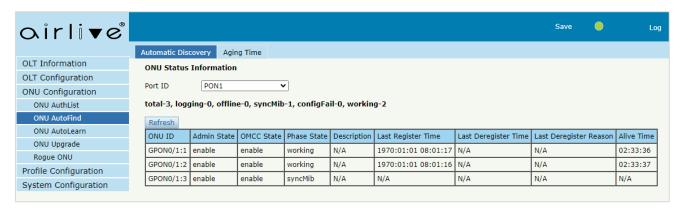
Click on "ONU Configuration" and select "ONU Autofind" when your ONU has been connected correctly. It will show up here. Select the ONU you want to add (when there are several) and click on "Add".



Click on "Submit" on the next page which will automatically appear.

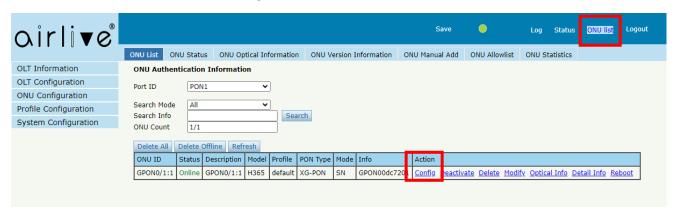


The ONU will now be shown and when connected correctly will show "Enable"



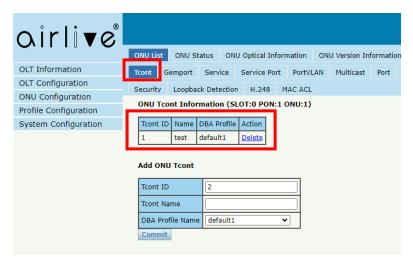
5: Configure the ONU, Click on the "ONU List" in the top right corner of the OLT menu bar. if you do not have the ONU List button, then go to ONU Configuration and click on ONU AuthList.

The active ONU's will now be shown, select the ONU you want to configure (make sure the status is "Online") and click on the "Config" button.

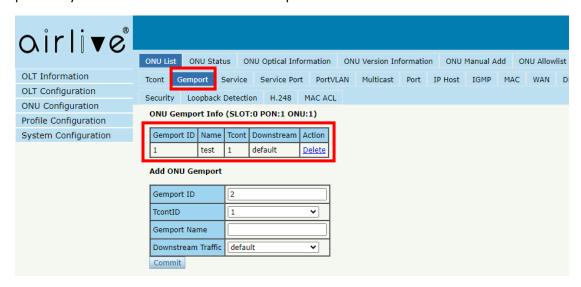


6: Setup the "tcont", "gemport", "Service", "Service Port" and other parameters.

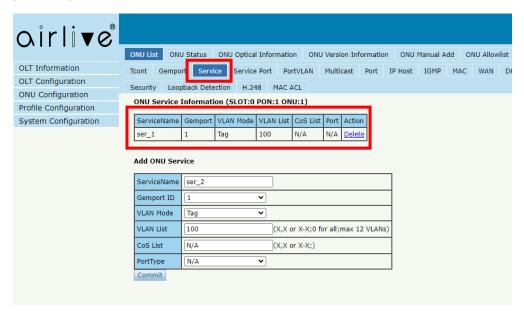
Setup the "tcon" default value is 1, in this example for name, the name test was used.



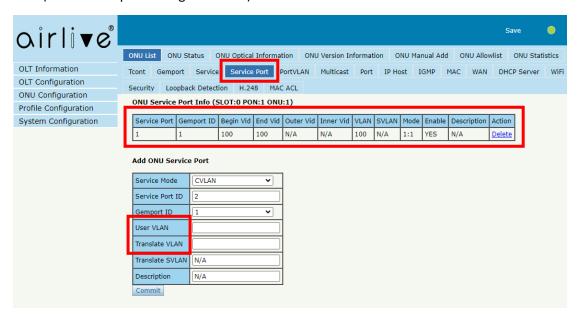
Setup the "gemport" the default value is 1, make sure the TcontID select is 1 (the one previously made. The name used in this example is test.



Setup the "Service", make sure to select Gemport ID 1 (the one just made) and for VLAN mode select "Tag" for "VLAN List" enter the value 100, this is the VLAN id made in the OLT previously.

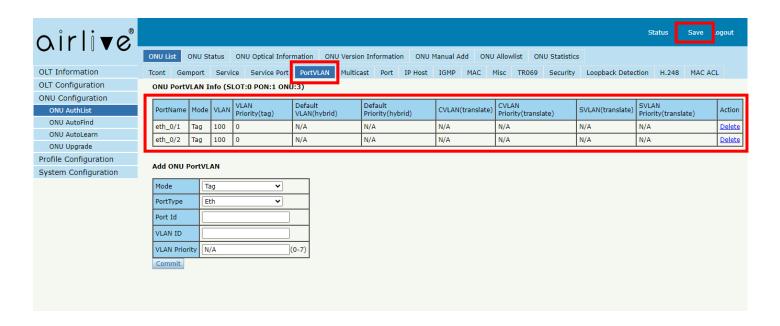


Setup the "Service Port" enter the User VLAN and Translate VLAN in this example both are 100. (as this example is using VLAN 100).



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Press "SAVE" in the top bar of the OLT so save the complete configuration.

The Setup is now complete, and the ONU is connected to Internet.

To see the settings of the ONU (which the OLT sent to the ONU), please connect to the ONU with a PC, and enter the default IP address of the ONU in a browser. The default IP address is 192.168.1.1. Note you need to setup your computer to a fixed IP address in the range of 192.168.1.x. As by default the computer will get an IP address from the router in the 192.192.110.x range (as per example).

Note: to see and change the WAN port setup please login as Administrator and not as User. Click on "Network" and Select "WAN" at "Connection Name" select the VLAN 100 connection (in this example) so see the setup.