

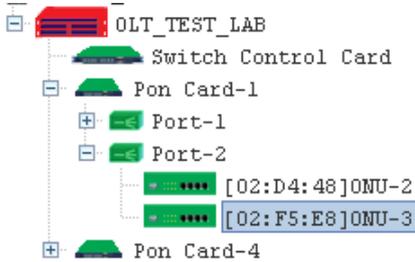
FAQ Cianet / ... / CTS2780

Configuração de VLAN CTS2780

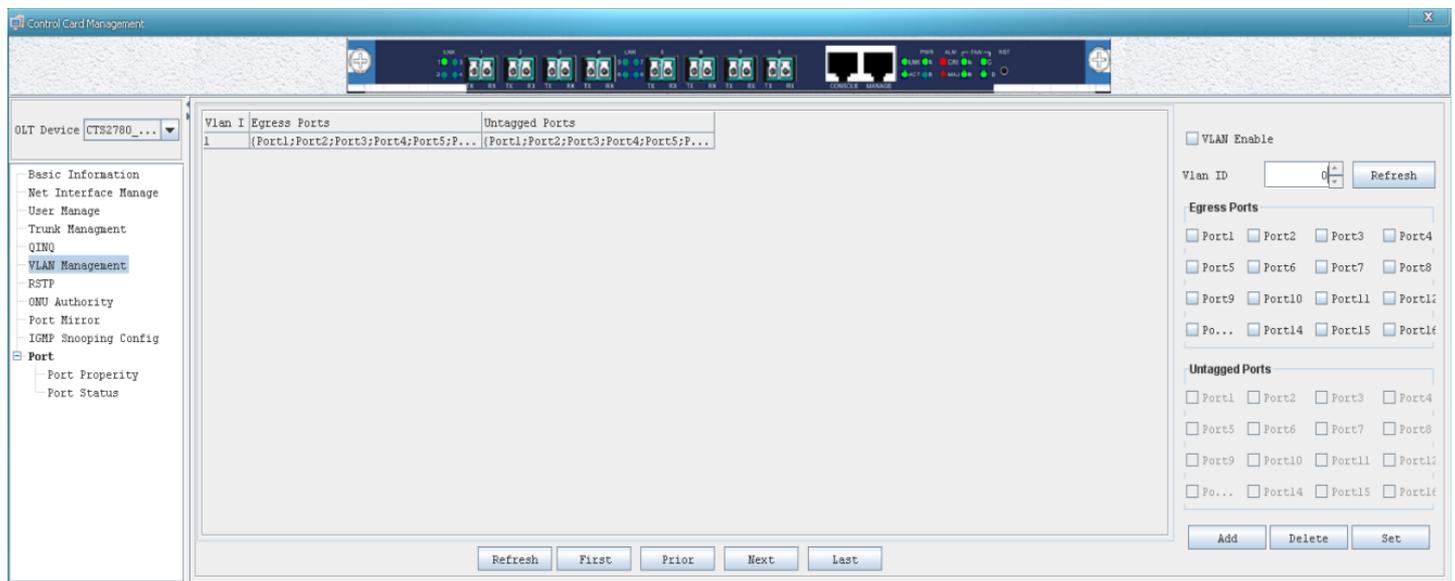
Created by Luis Cleomir , last modified on Jun 18, 2015

A configuração abaixo exemplifica a criação de 2 vlans no equipamento, 1 para cada porta. A configuração irá retirar a vlan tag no sentido downstream e adicionando a vlan na porta no sentido upstream.

Primeiramente vamos configurar a passagem das VLANs nas portas UPLINK e PONs. Dê um duplo clique em Switch Control:



Na janela que apresentou, vá no menu VLAN Management:



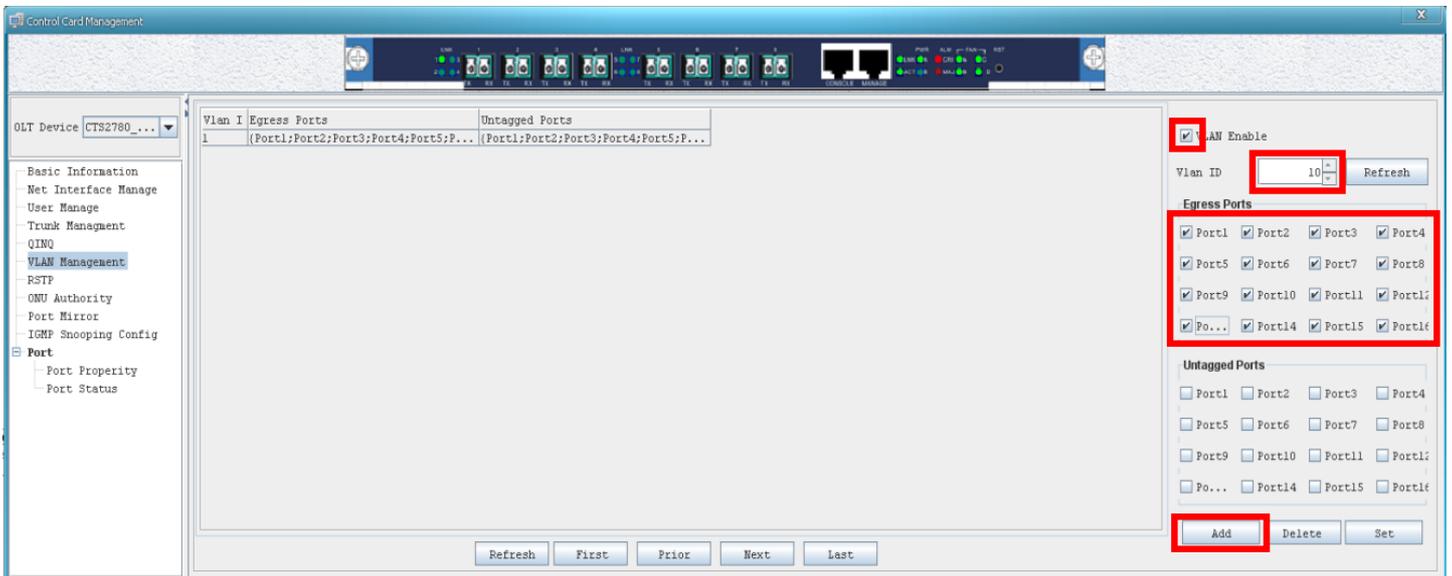
Nesta tela, marque a opção VLAN Enable, coloque o ID da VLAN (nosso exemplo é 10) e marque as portas que irá passar a VLAN.

As portas ficam representadas da seguinte forma:

-> De Port1 à Port8 é a representação da UPLINKS;

-> De Port9 à Port16 é a representação da portas PON, exemplo: Port9 = 1/1, Port10 = 1/2, Port11 = 2/1, e assim sucessivamente.

A opção de Untagged Ports é utilizada para a desmarcação das TAGs de VLAN para Upstream nas portas UPLINKS e Downstream nas portas PON.



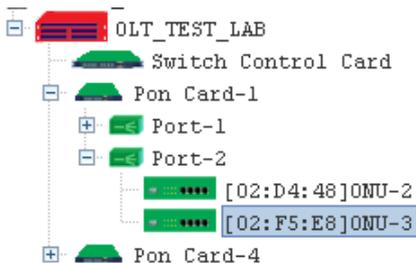
Feito isso, volte ao menu Basic Information e clique em Save:

Via ONU ACL

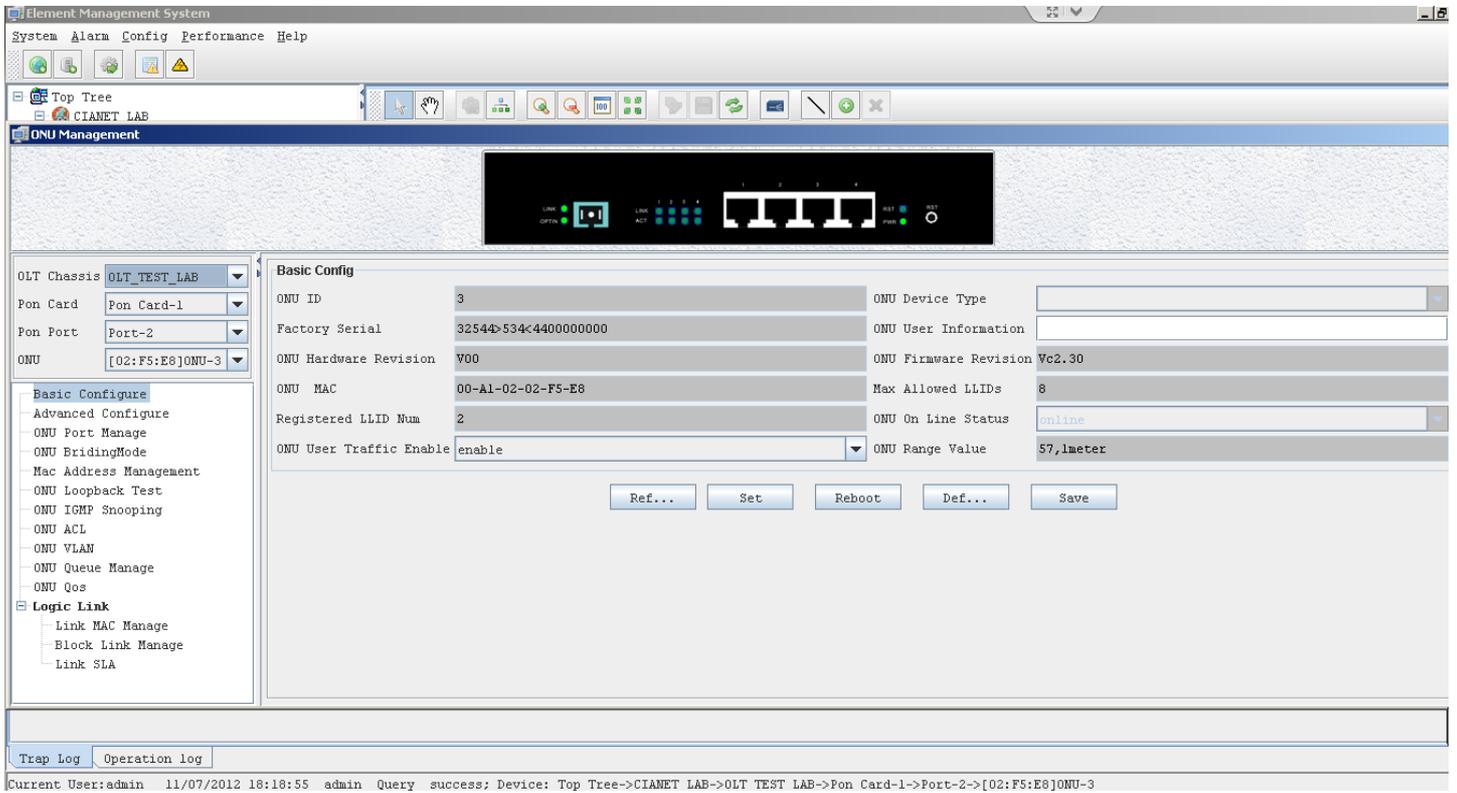
Procedimento é feito para a configura das ONUs modelos CTS2701b, CTS2701c, CTS2702b e CTS2702c, com firmware 2.30 ou inferior.

Feito a configuração na Gerencia, faça a configuração na ONU:

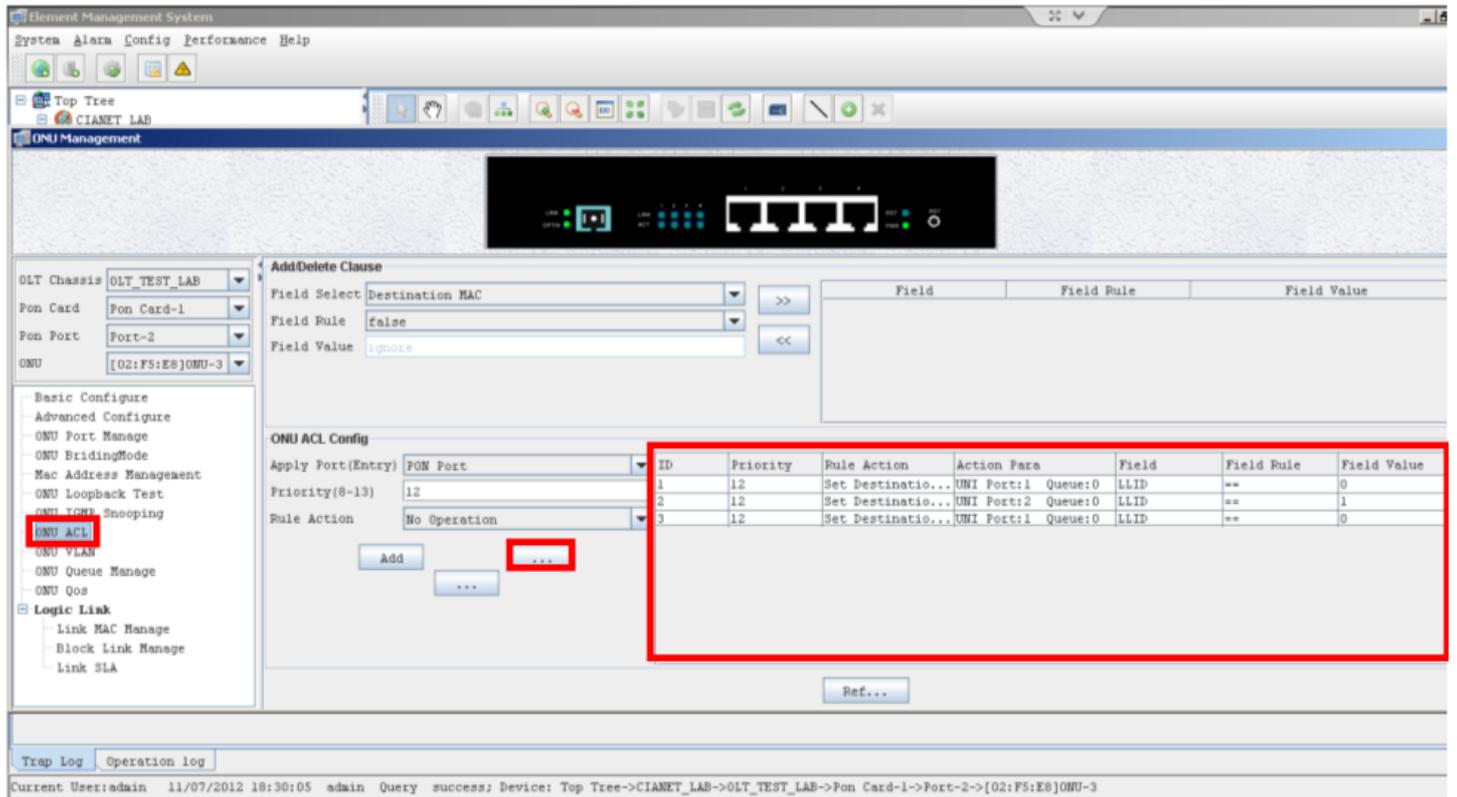
Dê um duplo clique na ONU que deseja configurar a vlan no software EMS.



Será aberto a janela ONU Management.



Vá para a opção “ONU ACL”.É necessário apagar a lista para antes de configurar a interface. Selecione cada regra na lista e clique no botão apagar. (o botão apresenta nome“...”)



Adicione a Clausula “VID == 10”. Como ilustrado abaixo e clique no botão “>>” para adicionar na lista.

The screenshot shows the EMS interface for ONU Management. The 'Add/Delete Clause' section is highlighted with a red box, showing the following configuration:

Field	Field Rule	Field Value
VLAN ID	==	10

The 'ONU ACL Config' section is also visible, with the following configuration:

Apply Port (Entry)	ID	Priority	Rule Action	Action Para	Field	Field Rule	Field Value
PON Port		12	No Operation				

Selecione a porta "PON Port" no campo "Apply Port (Entry)".

Selecione "Set Destination" no campo "Rule Action".

Insira o valor "1" no campo "UNI port".

Clique no botão "Add".

The screenshot shows the EMS interface for ONU Management. The 'Add/Delete Clause' section is highlighted with a red box, showing the following configuration:

Field	Field Rule	Field Value
VLAN ID	==	10

The 'ONU ACL Config' section is also visible, with the following configuration:

Apply Port (Entry)	ID	Priority	Rule Action	Action Para	Field	Field Rule	Field Value
PON Port		12	Set Destination	UNI Port:1 Queue:0	VLAN ID	==	10

Selecione "Delete Tag; Forward" no campo "Rule Action".

Clique no botão "Add".

OLT Chassis: OLT_TEST_LAB
Pon Card: Pon Card-1
Pon Port: Port-2
ONU: [02:F5:E8]ONU-3

Add/Delete Clause

Field Select: VLAN ID
Field Rule: ==
Field Value(0-4094): 10

ID	Priority	Rule Action	Action Para	Field	Field Rule	Field Value
1	12	Delete Tag; Forward	0	VLAN ID	==	10
2	12	Delete Tag; Forward	0	VLAN ID	==	10

Buttons: Add, ...

Trap Log | Operation log

Current User: admin 11/07/2012 18:30:05 admin Query success; Device: Top Tree->CIANET_LAB->OLT_TEST_LAB->Pon Card-1->Port-2->[02:F5:E8]ONU-3

Altere a Clausula para "VID == 20" e clique no botão ">>" para adicionar na lista.

Remova a Clausula "VID == 10" selecionando na lista e depois clicando no botão "<<".

OLT Chassis: OLT_TEST_LAB
Pon Card: Pon Card-1
Pon Port: Port-2
ONU: [02:F5:E8]ONU-3

Add/Delete Clause

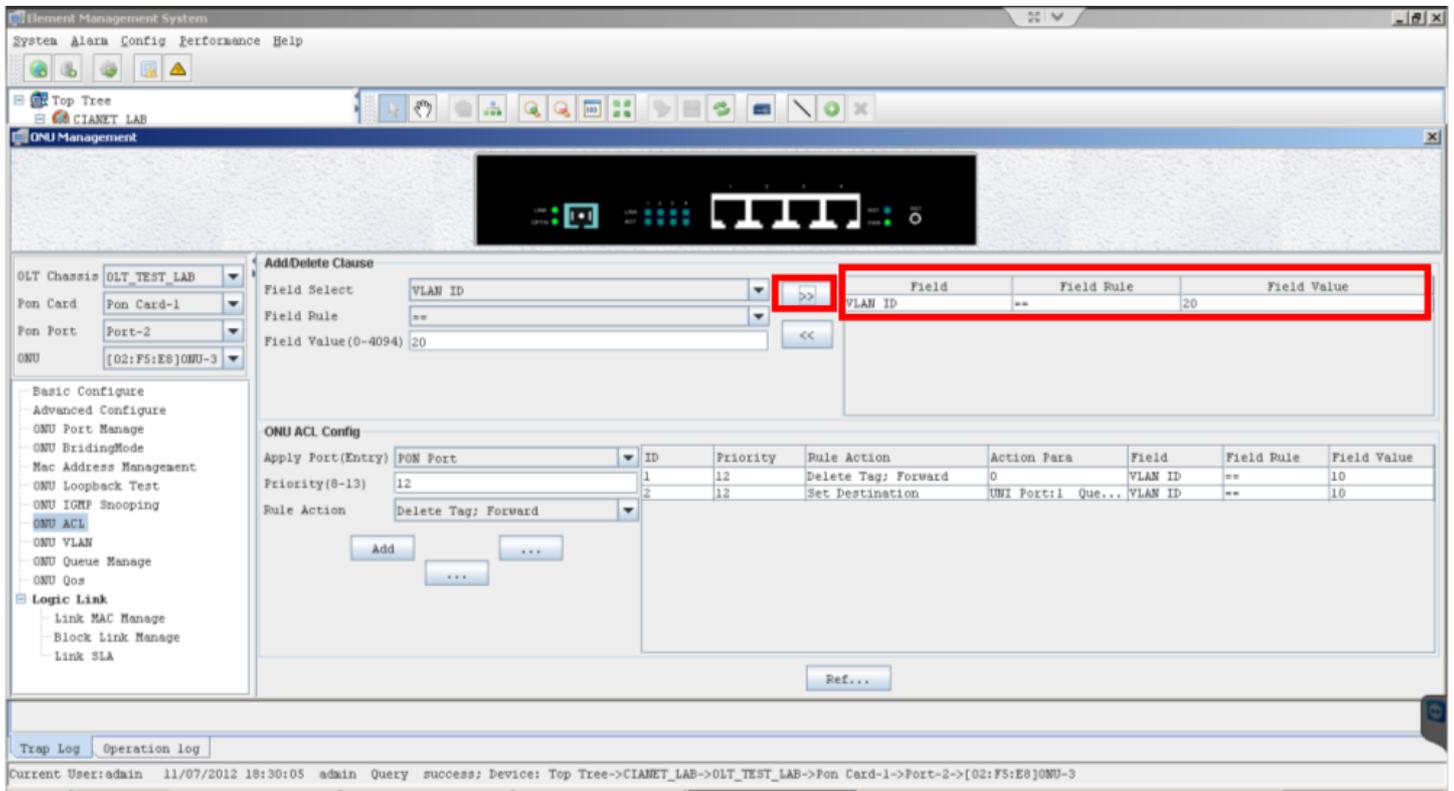
Field Select: VLAN ID
Field Rule: ==
Field Value(0-4094): 10

ID	Priority	Rule Action	Action Para	Field	Field Rule	Field Value
1	12	Delete Tag; Forward	0	VLAN ID	==	10
2	12	Delete Tag; Forward	0	VLAN ID	==	10

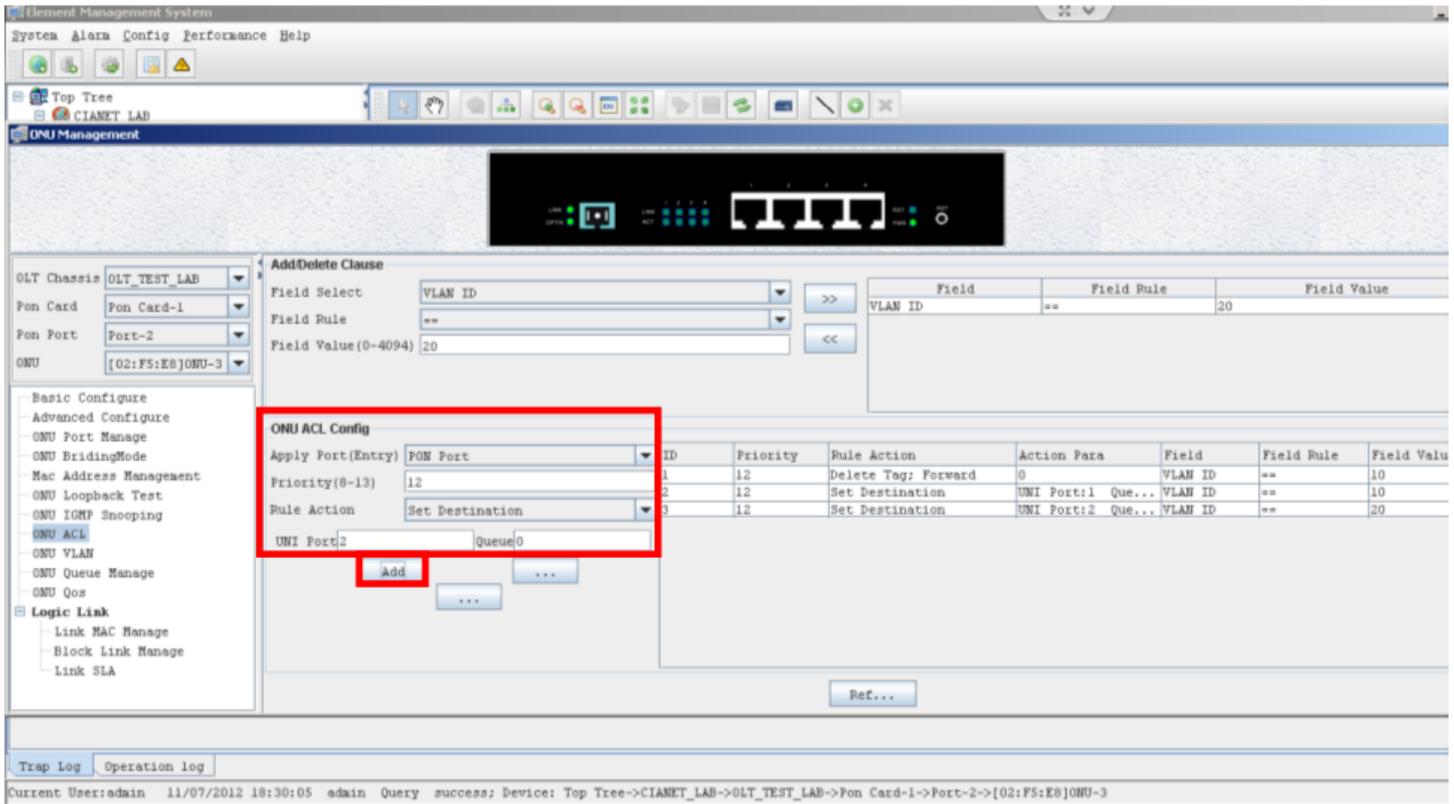
Buttons: Add, ...

Trap Log | Operation log

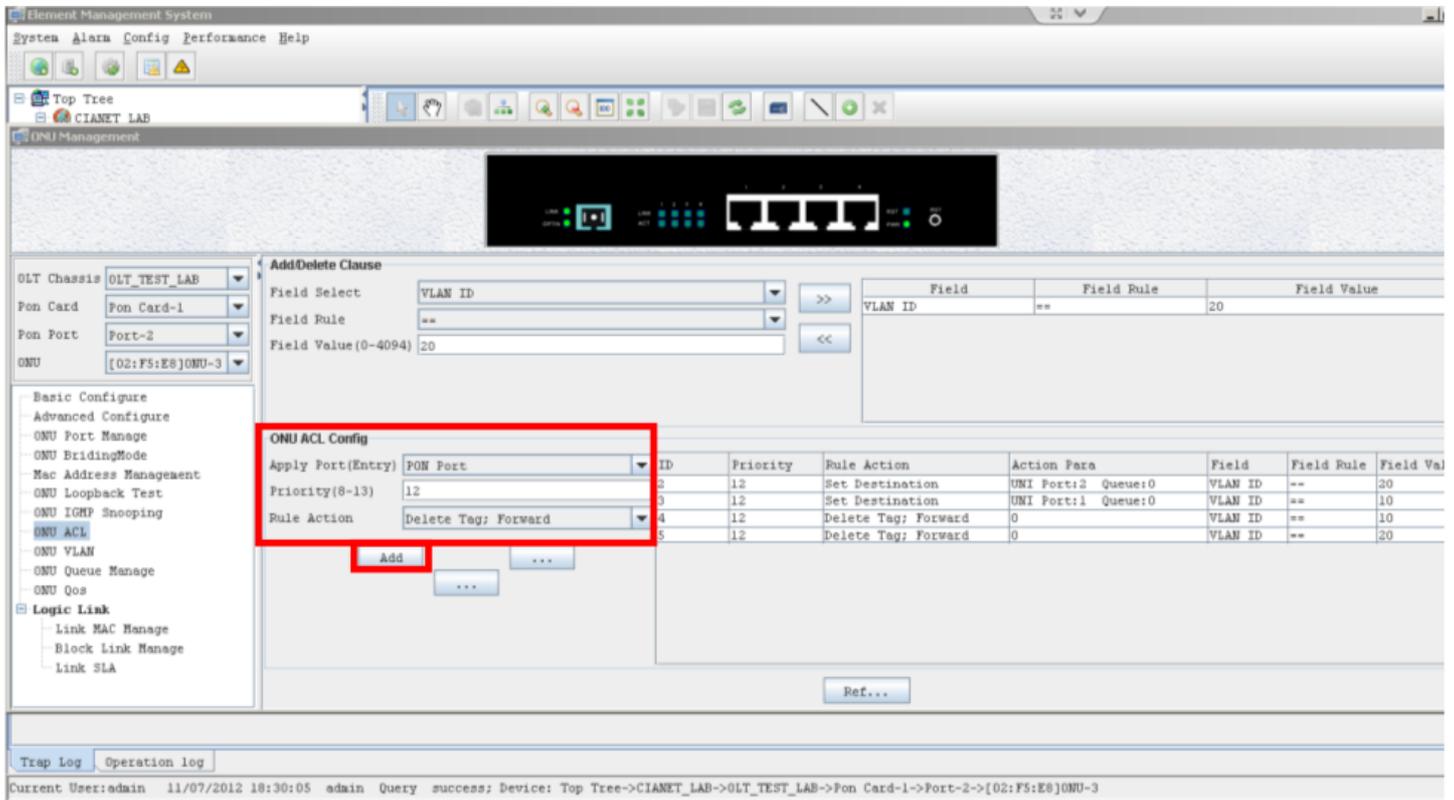
Current User: admin 11/07/2012 18:30:05 admin Query success; Device: Top Tree->CIANET_LAB->OLT_TEST_LAB->Pon Card-1->Port-2->[02:F5:E8]ONU-3



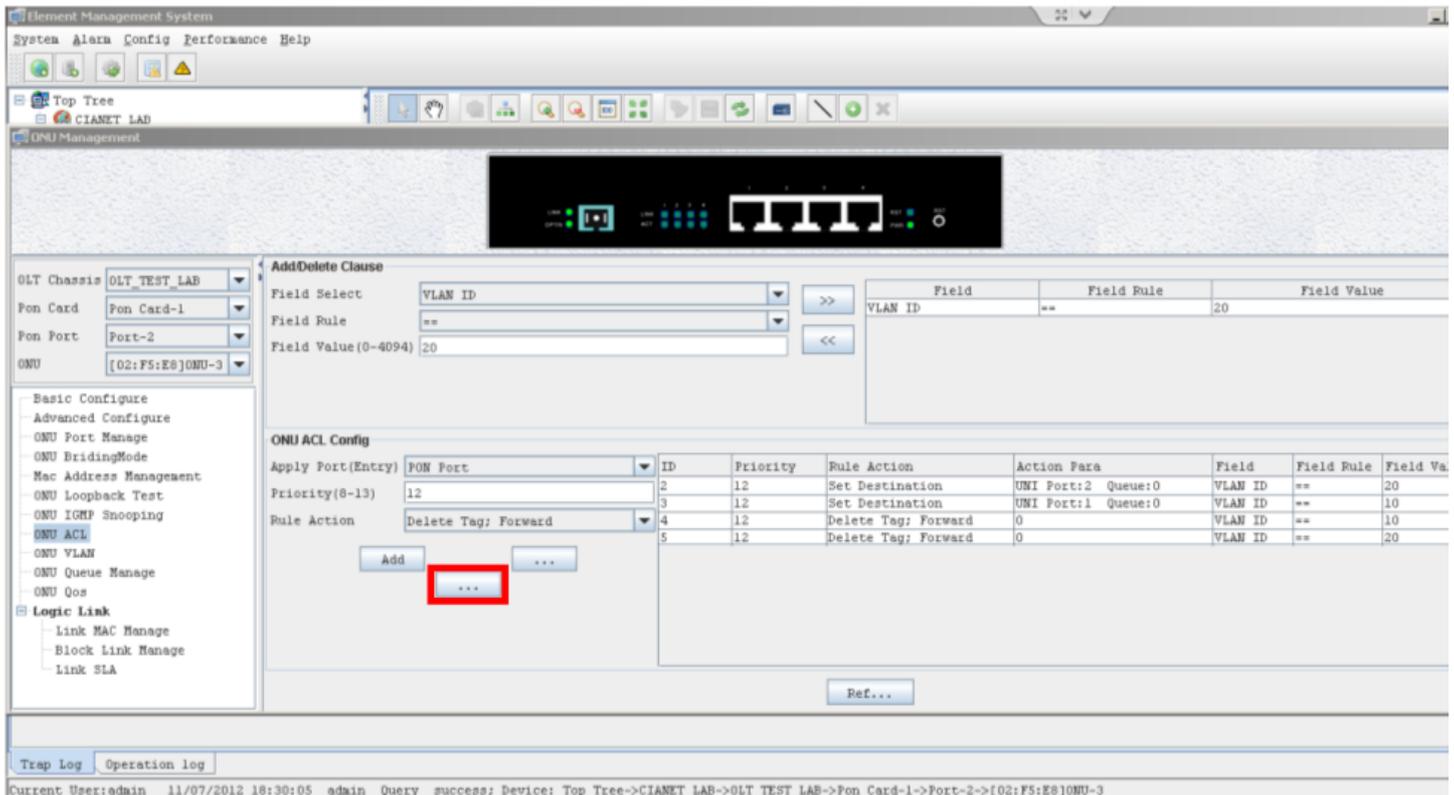
Selecione "Set Destination" no campo "Rule Action".
Insira o valor "2" no campo "UNI port".
Clique no botão "Add".



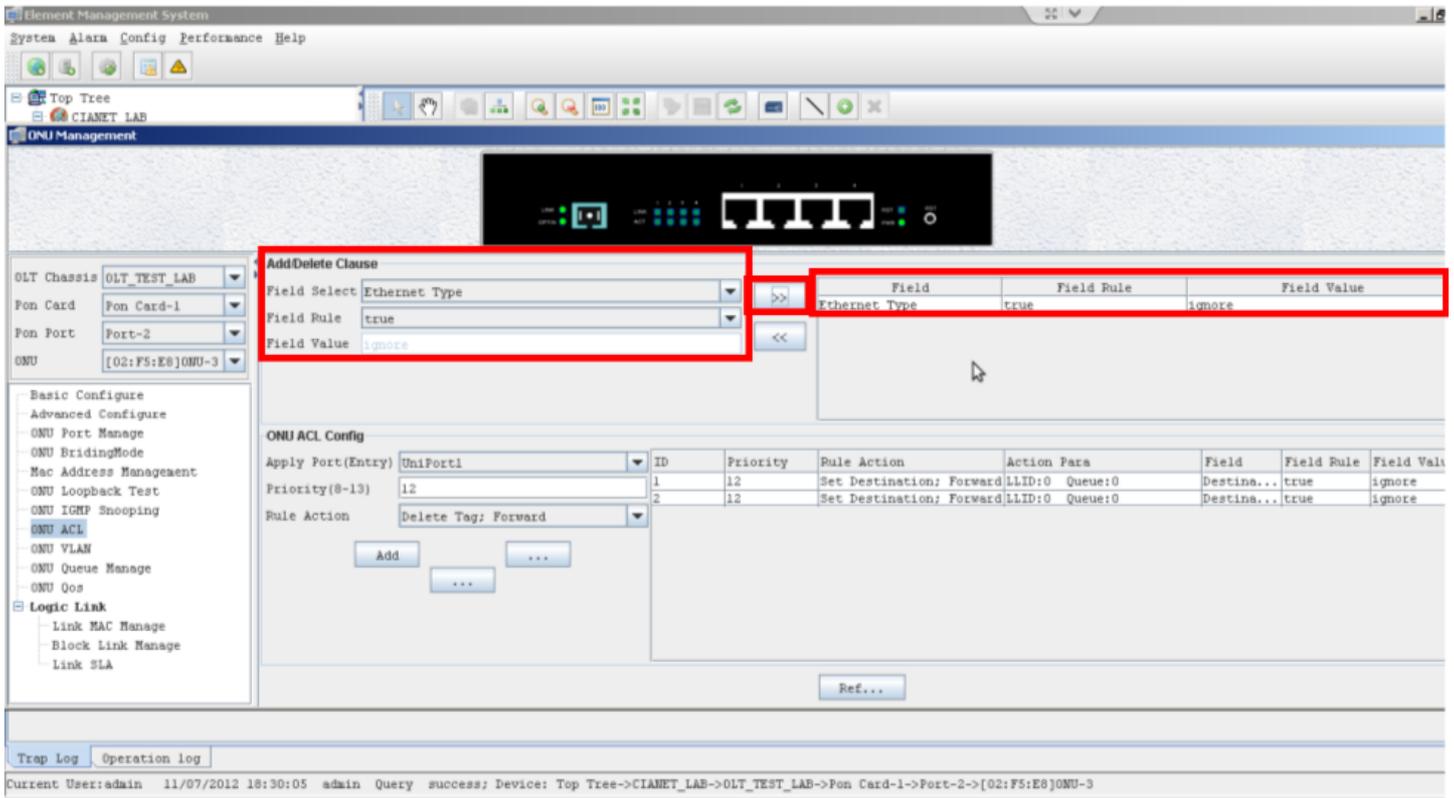
Selecione "Delete Tag; Foward" no campo "Rule Action".
Clique no botão "Add".



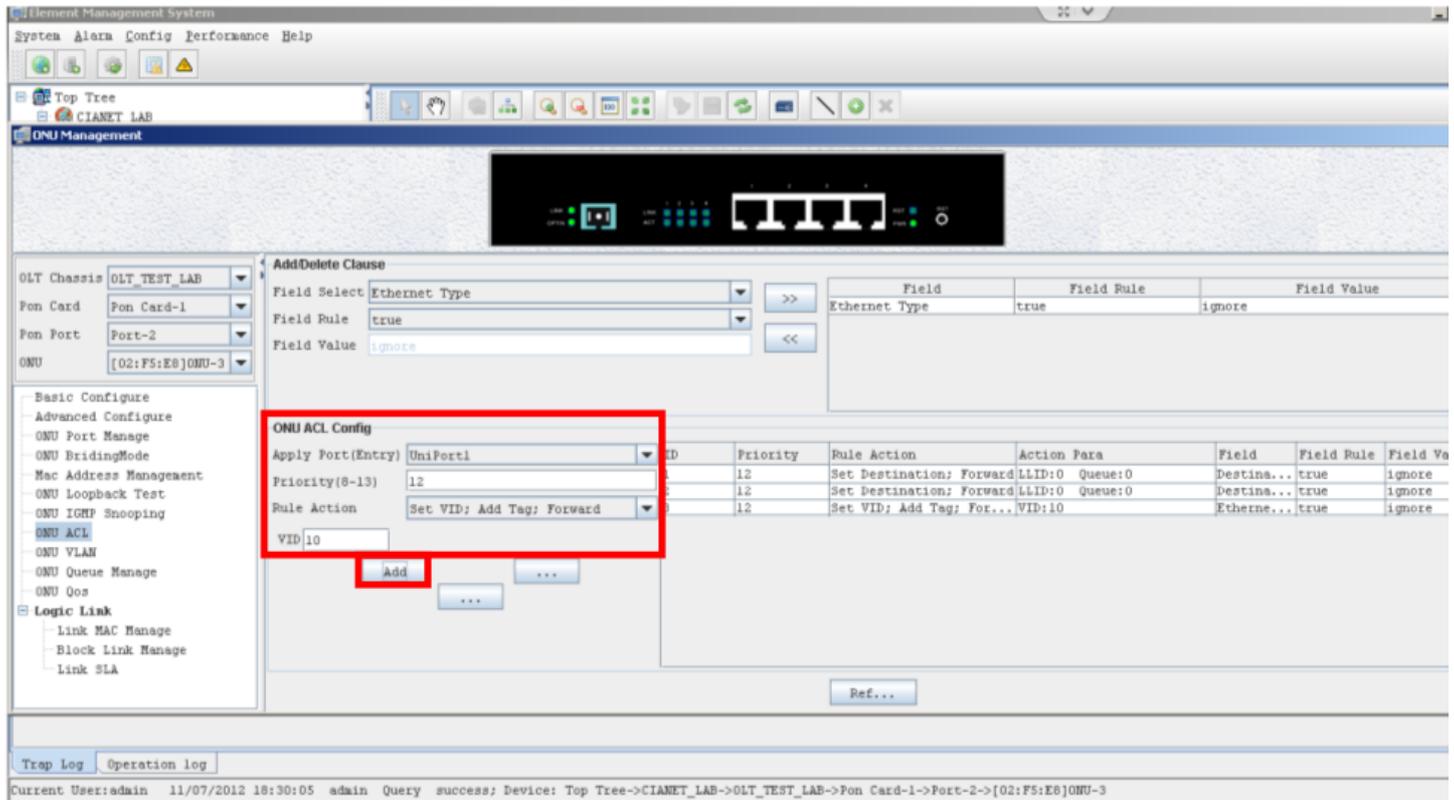
Clique no botão aplicar "Apply". O botão esta localizado no meio dos 3 botões e apresenta nome "...".



Selecione "UniPort1" no campo "Apply Port (Entry)". Crie a Clausula "Ethernet Type true" e adicione na lista clicando no botão ">>". (remova outra clausula da lista se existir).



Selecione a opção "Set VID; Add tag; Foward" insira o VID (10 para exemplo).
Clique no botão "Add".



Finalize a operação clicando em "Apply".O botão esta localizado no meio dos 3 botões e apresenta nome "...".

Element Management System

System Alarm Config Performance Help

Top Tree CIANET LAB

ONU Management

OLT Chassis: OLT_TEST_LAB

Pon Card: Pon Card-1

Pon Port: Port-2

ONU: [02:F5:E8]ONU-3

Add/Delete Clause

Field	Field Rule	Field Value
Ethernet Type	true	ignore

ONU ACL Config

Apply Port (Entry)	ID	Priority	Rule Action	Action Para	Field	Field Rule	Field Value
UniPort1	1	12	Set Destination; Forward	LLID:0 Queue:0	Destina...	true	ignore
	2	12	Set Destination; Forward	LLID:0 Queue:0	Destina...	true	ignore
	3	12	Set VID; Add Tag; Forward	VID:10	Etherne...	true	ignore

VID: 10

Buttons: Add, ...

Ref...

Trap Log Operation log

Current User: admin 11/07/2012 18:30:05 admin Query success; Device: Top Tree->CIANET_LAB->OLT_TEST_LAB->Pon Card-1->Port-2->[02:F5:E8]ONU-3

A criação da vlan na interface fast é idêntica ao passo 5, sendo apenas alterado o VID.

Element Management System

System Alarm Config Performance Help

Top Tree CIANET LAB

ONU Management

OLT Chassis: OLT_TEST_LAB

Pon Card: Pon Card-1

Pon Port: Port-2

ONU: [02:F5:E8]ONU-3

Add/Delete Clause

Field	Field Rule	Field Value
Ethernet Type	true	ignore

ONU ACL Config

Apply Port (Entry)	ID	Priority	Rule Action	Action Para	Field	Field Rule	Field Value
UniPort2	1	12	Set Destination; Forward	LLID:1 Queue:0	Destina...	true	ignore
	2	12	Set VID; Add Tag; Forward	VID:20	Etherne...	true	ignore

VID: 20

Buttons: Add, ...

Ref...

Trap Log Operation log

Current User: admin 11/07/2012 18:30:05 admin Query success; Device: Top Tree->CIANET_LAB->OLT_TEST_LAB->Pon Card-1->Port-2->[02:F5:E8]ONU-3

Pronto, com essas configurações a OLT ira repassar a tag de VLAN para as portas desejadas.

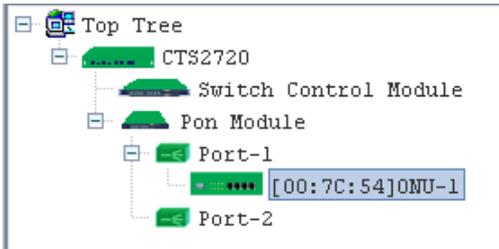
Via ONU VLAN

Procedimento é feito para a configura das ONUs modelos CTS2701b, CTS2701c, CTS2702b e CTS2702c, com firmware 2.42 ou superior.

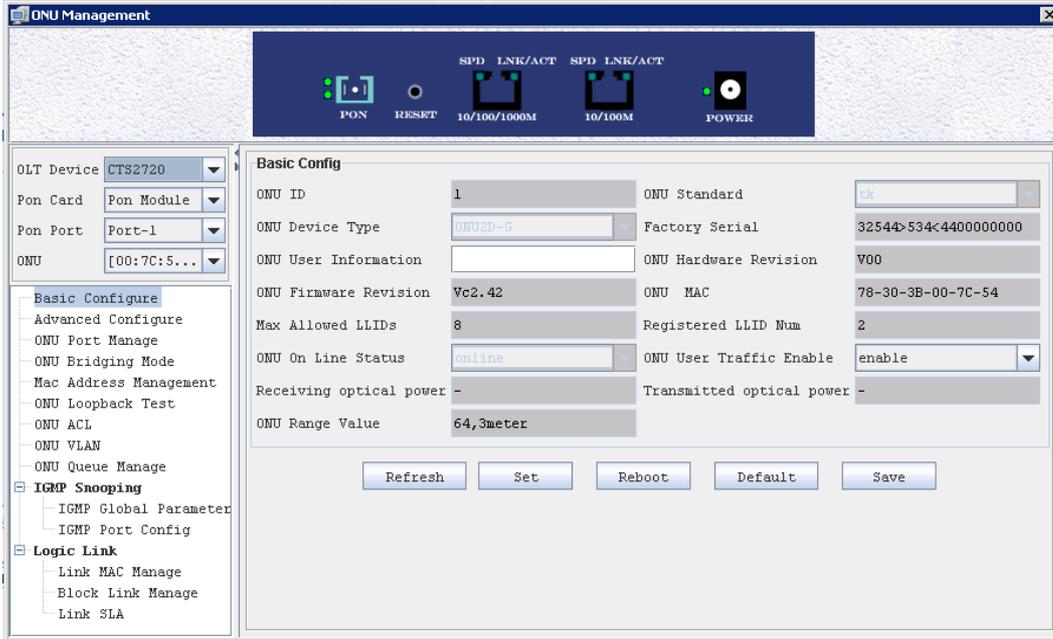
Feito a configuração na Gerencia, faça a configuração na ONU:

<http://faq.cianet.ind.br/pages/viewpage.action?pageId=13697034>

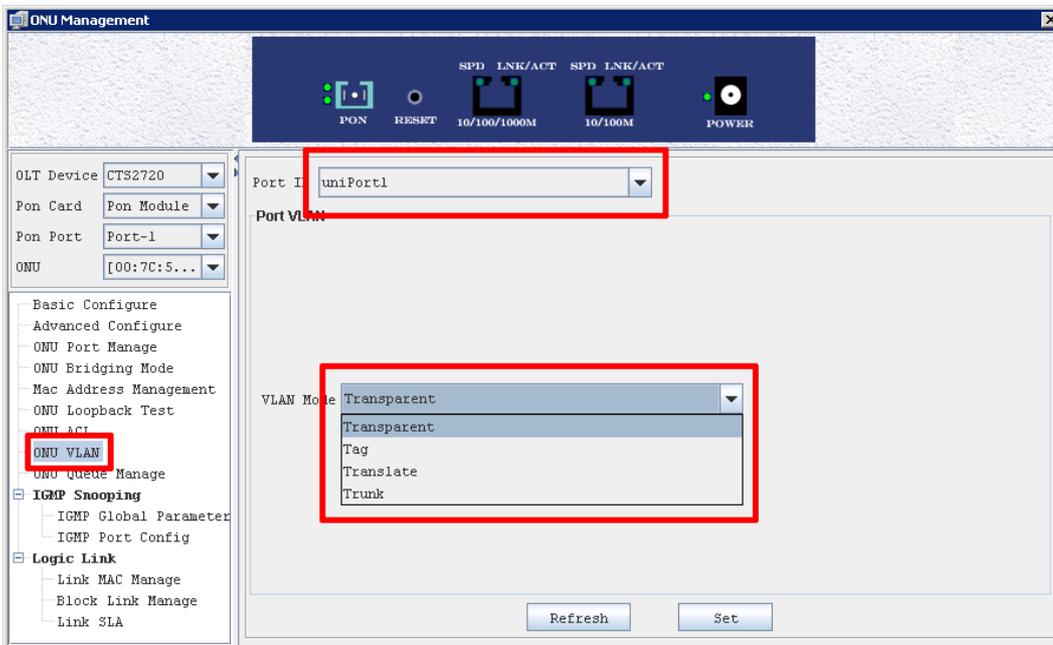
Dê um duplo clique na ONU que deseja configurar a vlan no software EMS.



Será aberto a janela ONU Management.



Clique em ONU VLAN no menu lateral, selecione a porta e o VLAN Mode que a porta irá trabalhar.



- Transparent: modo de passagem livre;
- Tag: marcação de vlan na porta;
- Translate: toraca de uma vlan para outra, exemplo da 10 para 20 **(NÃO HABILITADO)**;
- Trunk: configura vlan trunk e lista de vlans permitidas;

Tag

Para configurar tag de vlan basta selecionar a opção no menu TAG e configurar a opção VID [1-495]:

ONU Management

SPD LNK/ACT SPD LNK/ACT

PON RESET 10/100/1000M 10/100M POWER

OLT Device: CTS2720
 Pon Card: Pon Module
 Pon Port: Port-1
 ONU: [00:7C:5...]

Port ID: uniPort1

Port VLAN

VLAN Mode: Tag

Default TPID[0-FFFF] 0x: 8100

Default Vlan: Cos[0-7] 0

VID[1-4095]: 10

Refresh Set

Clique em Set para salvar as configurações.

Trunk

Para configurar a porta como trunk basta selecionar a opção no menu Trunk e configurar a opção VID [1-495]:

ONU Management

SPD LNK/ACT SPD LNK/ACT

PON RESET 10/100/1000M 10/100M POWER

OLT Device: CTS2720
 Pon Card: Pon Module
 Pon Port: Port-1
 ONU: [00:7C:5...]

Port ID: uniPort1

Port VLAN

VLAN Mode: Trunk

Default TPID[0-FFFF] 0x: 8100

Default Vlan: Cos[0-7] 0

VID[1-4095]: 10

TPID(Hex)	VLAN ID
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Refresh Add Delete Set

Clique em Add para adicionar as vlans que serão permitidas no trunk, na tela que apresentou altere o campo VLAN ID para a vlan desejada e clique em OK:

Add VLAN

TPID (Hex) 8100

VLAN ID 20

OK Cancel

Clique em Set para salvar as configurações.

The screenshot shows the 'ONU Management' interface. At the top, there are status indicators for PON, RESET, two 10/100/1000M ports, and POWER. The main configuration area is for 'Port ID: uniPort1'. Under 'Port VLAN', the 'VLAN Mode' is set to 'Trunk'. The 'Default TPID[0-FFFF]' is '0x 8100'. The 'Default Vlan:' section shows 'Cos[0-7]' set to 0 and 'VID[1-4095]' set to 10. A table below lists the mapping:

TPID (Hex)	VLAN ID
8100	20

At the bottom of the configuration area are buttons for 'Refresh', 'Add', 'Delete', and 'Set'. On the left, a navigation menu includes 'Basic Configure', 'Advanced Configure', 'ONU Port Manage', 'ONU Bridging Mode', 'Mac Address Management', 'ONU Loopback Test', 'ONU ACL', 'ONU VLAN' (selected), 'ONU Queue Manage', 'IGMP Snooping', and 'Logic Link'.