

PROCEDIMENTO OPERACIONAL PADRÃO

# **PROVISIONAMENTO ONT VIA NETNUMEN**



NOC CGR ALLAN ANDRESS

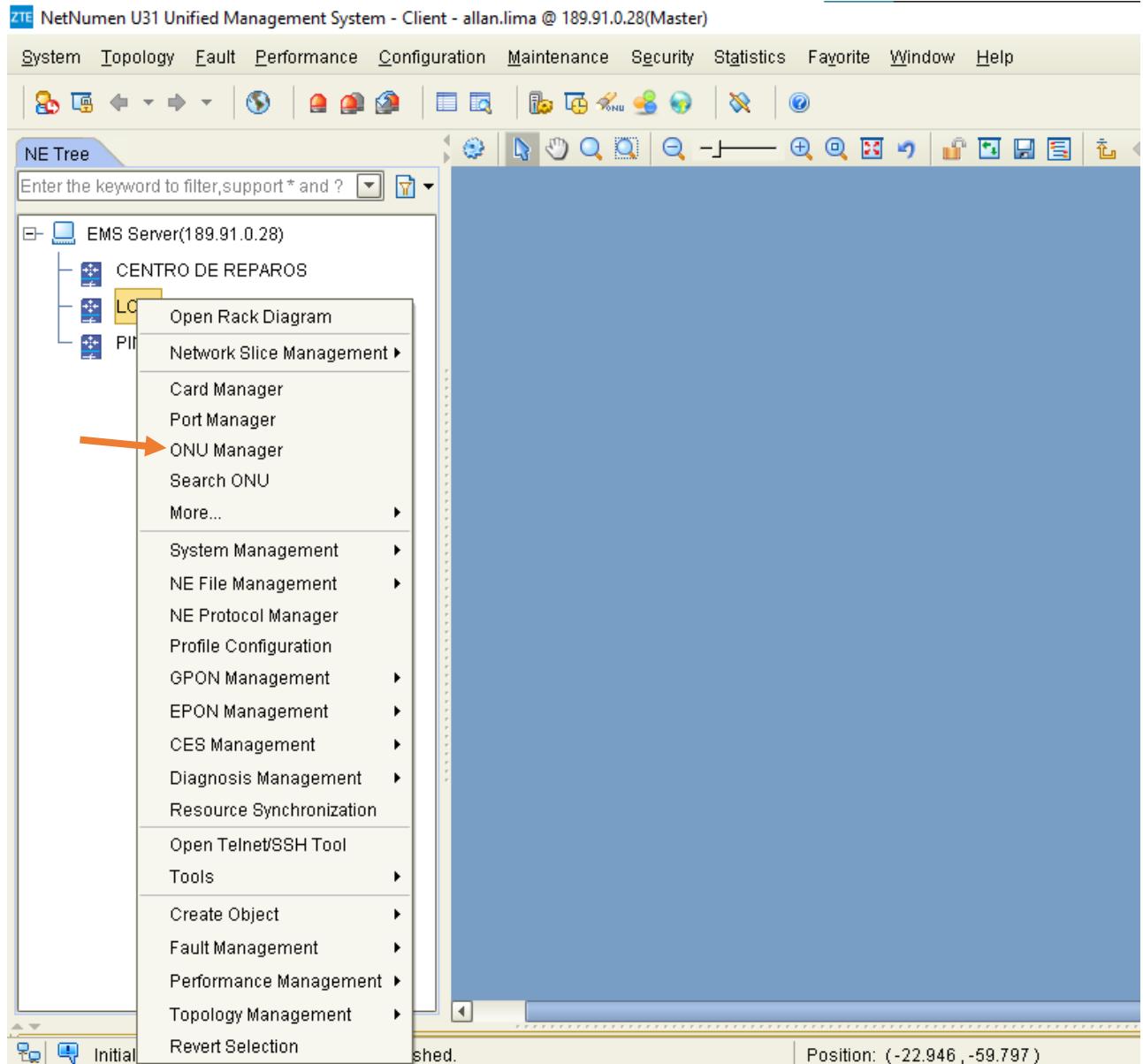
NOC MASTER JULHO 2023

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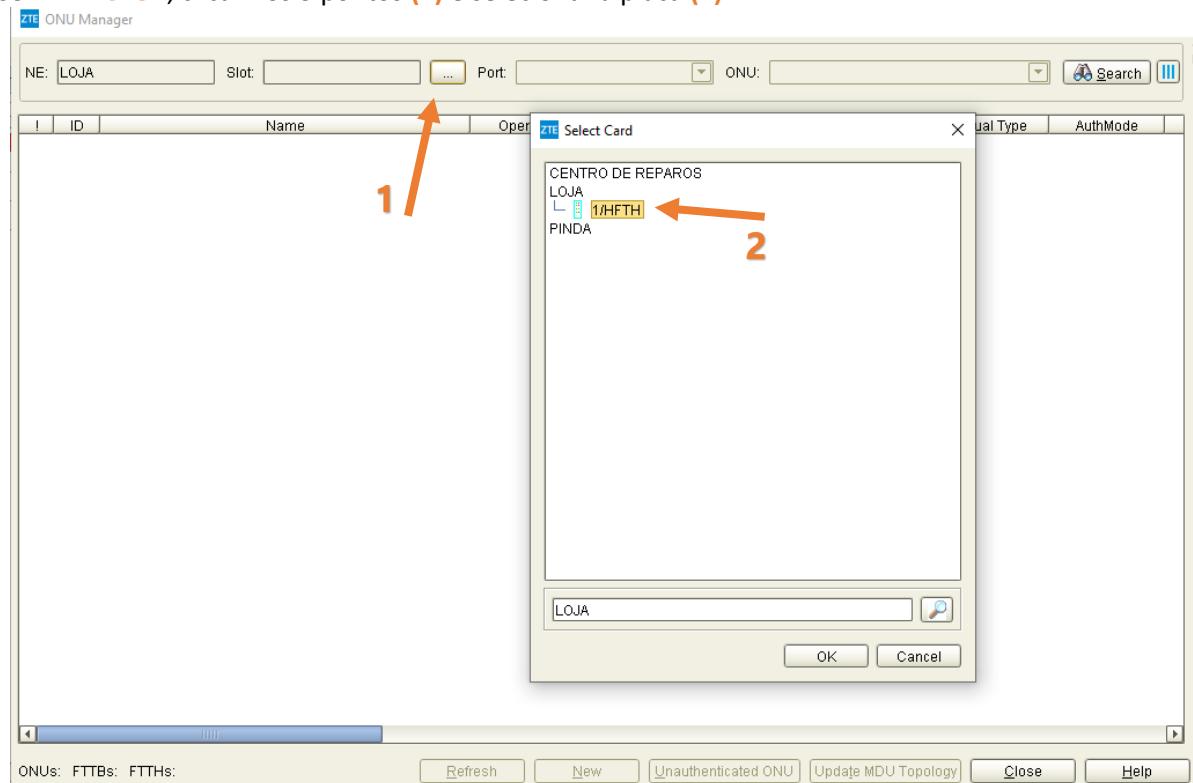
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## PROVISIONAMENTO ONU HIBRIDA- MONU | VIRADA NOTURNA

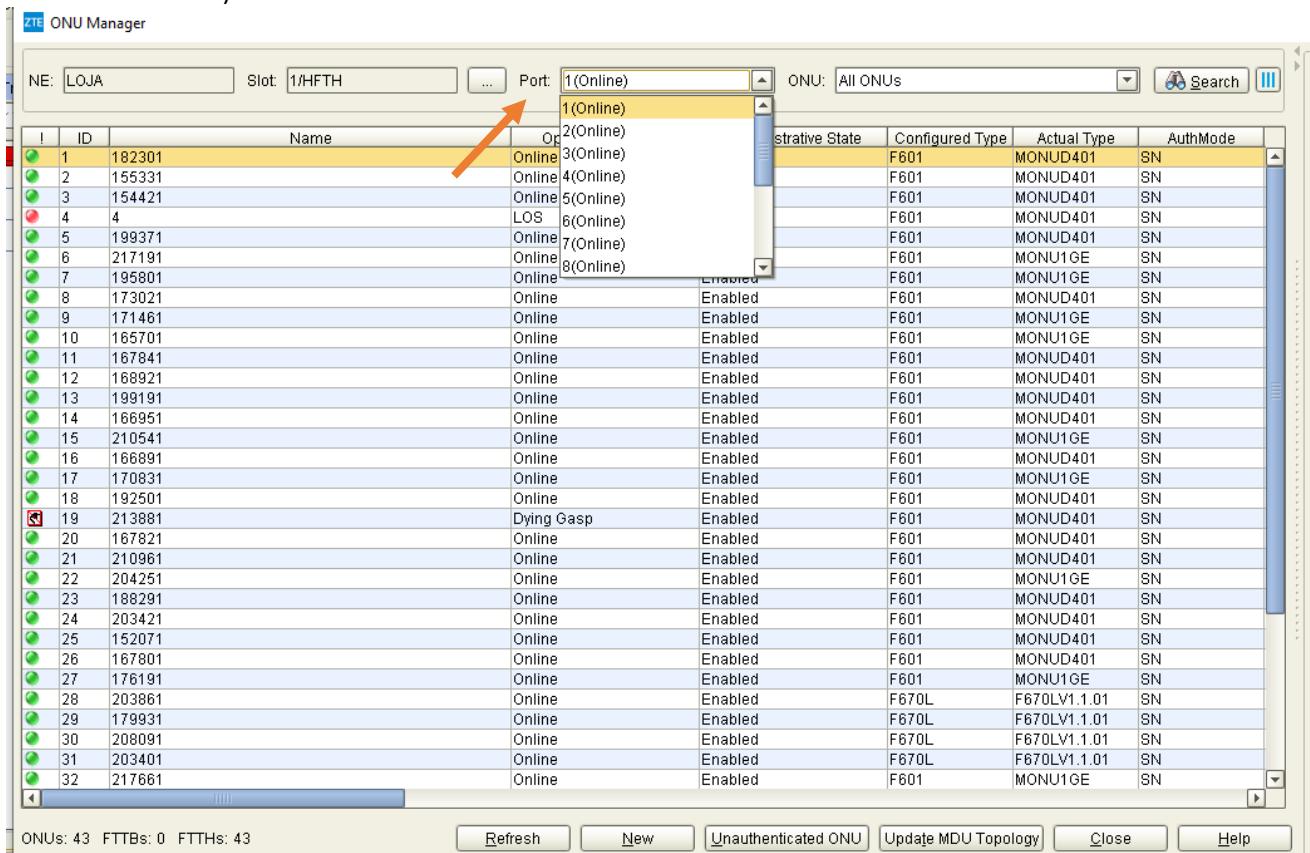
**Passo 1:** Selecione a **OLT** que será migrada > clicar com botão direito > Clicar **ONU manager**



**Passo 2:** Em **SLOT**, clicar nos 3 pontos (1) e selecionar a placa (2)

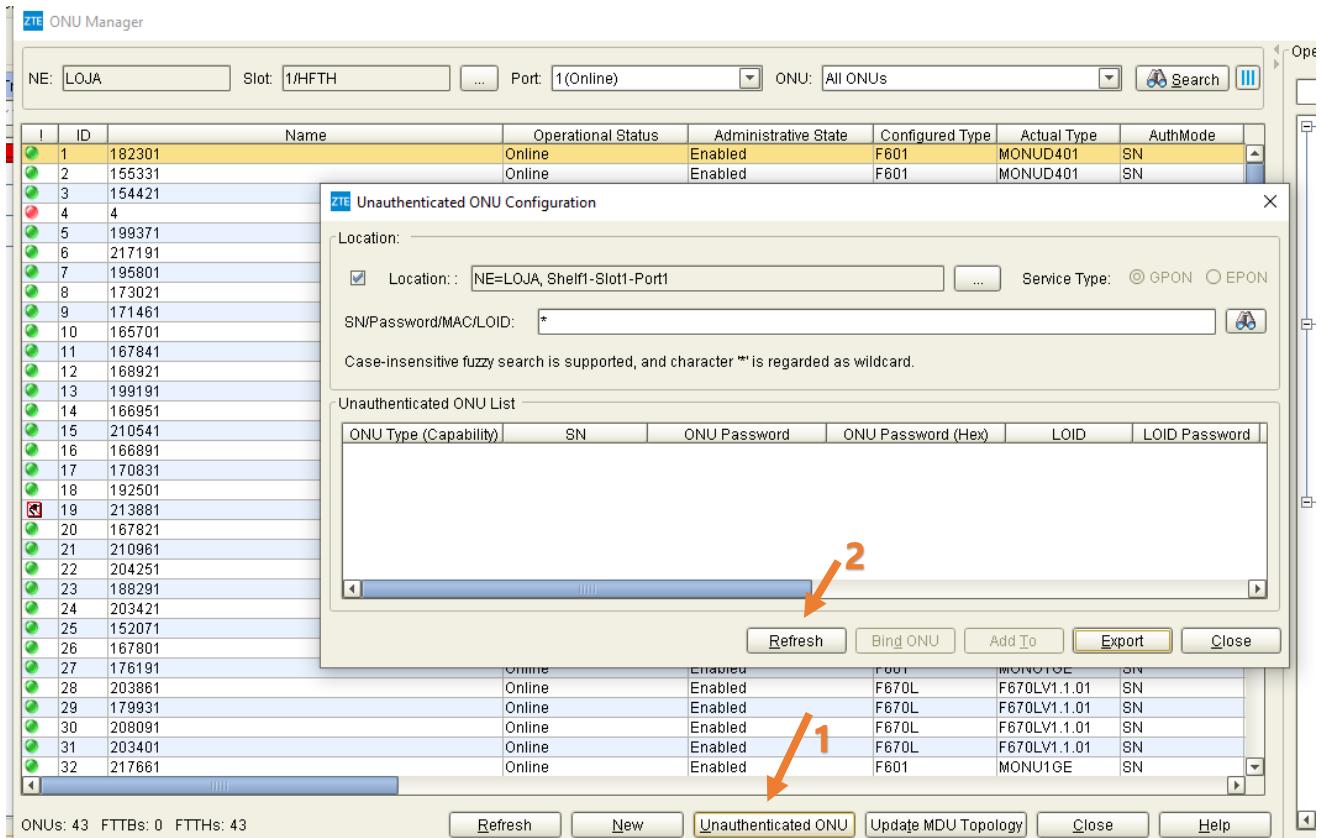


**Passo 3:** Em **Port**, escolher a porta que subirá os clientes (O técnico da regional irá informar qual porta irá conectar o cordão)



**Passo 4:** Com a porta selecionada e cordão inserido à OLT, clicar em **Unauthenticated ONU (1)** e em seguida **Refresh (2)** até que os equipamentos apareçam na lista para provisionamento.

Obs.: Pode demorar alguns minutos até que os equipamentos comecem a subir.



**Passo 5:** Para o provisionamento seguir os seguintes passos:

Clicar sobre um **MAC**, selecionar **ADD TO**

Na nova janela Escolher:

**1 ONU Type:** F601 para dispositivos MONU

**2 Vport Mode:** GEM Port

**3 Name:** Código\_Ccontrato

Clicar em Ok

ZTE New ONU

**Basic & Extended Parameters** Maintenance Parameters

Location: NE: LAVRAS-HEADEND Shelf/Slot/Port: 1/2/5

**ONU Basic Attributes**

ID*: 44	Name*: 1234_C4321
ONU Type (Capability)*: F601	VPort Mode: GEM Port
Authentication Mode*: SN	Authentication Value*: ZTEG -- 0X: D1F52D96
Authentication Information at Back-online: SN	
Splitter ID:	

Management IP and Route

ONU IP:	Mask:	Management VLAN:
Route Destination:	Route Mask:	Route Gateway:

Add Topology Node

Parameters with \* are required

OK Cancel

### Passo 6: Selecione o equipamento e vai em ONU PROFILE CONFIGURATION

ZTE ONU Manager

NE: LOJA Slot: 1/HFTH Port: 1(Online) ONU: All ONUs Search

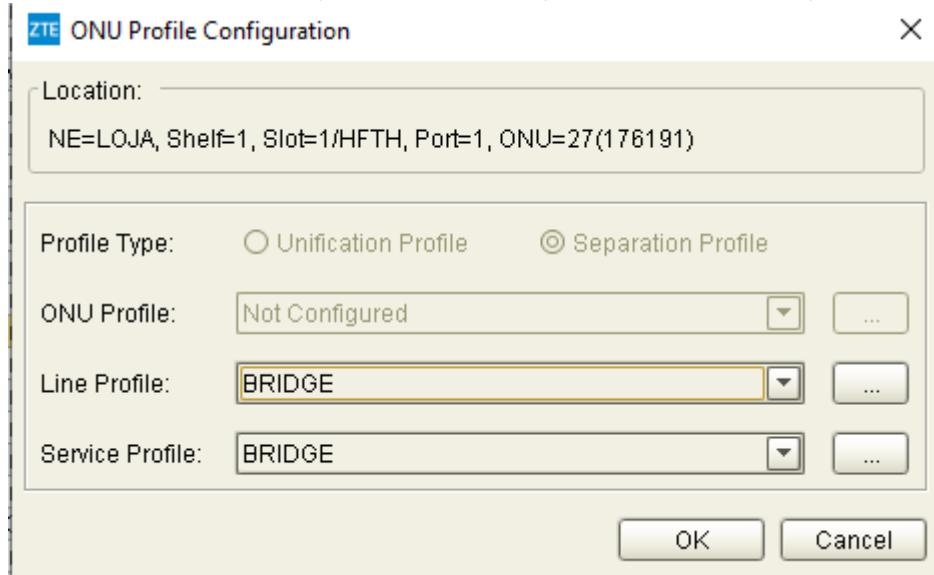
I	ID	Name	Operational Status	Administrative State	Configured Type	Actual Type	AuthMode
12	168921		Online	Enabled	F601	MONUD401	SN
13	199191		Online	Enabled	F601	MONUD401	SN
14	168951		Online	Enabled	F601	MONUD401	SN
15	210541		Online	Enabled	F601	MONU1GE	SN
16	166891		Online	Enabled	F601	MONUD401	SN
17	170831		Online	Enabled	F601	MONU1GE	SN
18	192501		Online	Enabled	F601	MONUD401	SN
19	213881	Dying Gasp	Enabled	Enabled	F601	MONUD401	SN
20	167821		Online	Enabled	F601	MONUD401	SN
21	210961		Online	Enabled	F601	MONUD401	SN
22	204251		Online	Enabled	F601	MONU1GE	SN
23	188291		Online	Enabled	F601	MONUD401	SN
24	203421		Online	Enabled	F601	MONUD401	SN
25	152071		Online	Enabled	F601	MONUD401	SN
26	167801		Online	Enabled	F601	MONUD401	SN
27	176191		Online	Enabled	F601	MONU1GE	SN
28	203861		Online	Enabled	F670L	F670LV1.1.01	SN
29	179931		Online	Enabled	F670L	F670LV1.1.01	SN
30	208091		Online	Enabled	F670L	F670LV1.1.01	SN
31	203401		Online	Enabled	F670L	F670LV1.1.01	SN
32	217661		Online	Enabled	F601	MONU1GE	SN
33	203371	LOS	Enabled	Enabled	F670L	F670LV1.1.01	SN
34	216371		Online	Enabled	F601	MONU1GE	SN
35	174491		Online	Enabled	F670L	F670LV9.0	SN
36	203821		Online	Enabled	F670L	F670LV9.0	SN
37	207091		Online	Enabled	F670L	F670LV1.1.01	SN
38	154671		Online	Enabled	F670L	F670LV1.1.01	SN
39	190611		Online	Enabled	F670L	F670LV9.0	SN
40	175981		Online	Enabled	F670L	F670LV9.0	SN
41	177981		Online	Enabled	F670L	F670LV1.1.01	SN
42	167791		Online	Enabled	F670L	F670LV1.1.01	SN
43	203371		Online	Enabled	F670L	F670LV9.0	SN

ONUs: 43 FTTBs: 0 FTTHs: 43 Refresh New Unauthenticated ONU Update MDU Topology Close Help

Operations

- ONU Maintenance
  - Details
  - Enable
  - Disable
  - Reboot
  - Modify
  - Delete
  - Change ONU
  - Restore to Factory Settings
- More
  - ONU Profile Configuration
- ONU Service Provisioning
  - Non-Profile Mode
  - Service Port
  - VPort Service Configuration
  - Service Provision by Template
  - ONU Extended Configuration
  - ONU Service Diagram
  - ONU Service Provisioning Wizard
- ONU Monitoring&Diagnose
  - Alarm Monitoring
  - Traffic Monitoring
  - Real-time Performance
  - PON Optical Module Diagnosis
  - MAC Address Table Management
  - Query UNI Learnt MAC
  - Service Simulation Test
- More

**Passo 7:** Em **LINE PROFILE**, selecione **BRIDGE**, em **SERVICE PROFILE**, selecione **BRIDGE** e dê OK

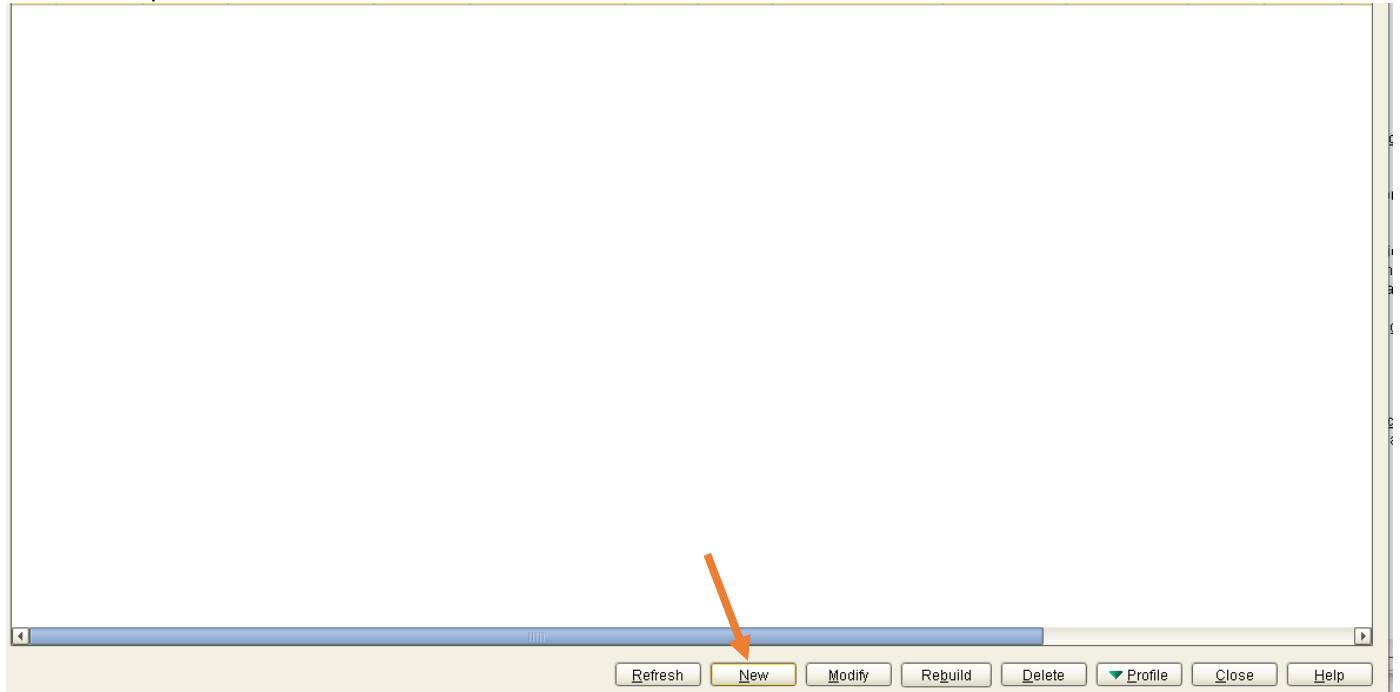


**Passo 8:** Selecione novamente o equipamento e clique em **SERVICE PORT**. **Atenção:** Sempre mantenha selecionado o equipamento do cliente ao fazer alterações!

The screenshot shows the ZTE NMS interface with the following details:

- Main Window (List View):**
  - Filter: ONU: 1/HFTH, Port: 1(Online), ONU: All ONUs.
  - Table Headers: Name, Operational Status, Administrative State, Configured Type, Actual Type, AuthMode.
  - Table Rows: A large list of ONUs, with one row highlighted in yellow (Name: Online, Operational Status: Enabled, Actual Type: MONU1GE).
- Right Panel (Operations Tree):**
  - Path: ONU Maintenance → Service Port (highlighted with an orange arrow).
  - Other options shown include Details, Enable, Disable, Reboot, Modify, Delete, Change ONU, Restore to Factory Settings, More, ONU Service Provisioning, Non-Profile Mode, VPort Service Configuration, Service Provision by Template, ONU Extended Configuration F, ONU Service Diagram, ONU Service Provisioning Wiza, ONU Monitoring&Diagnose, Alarm Monitoring, Traffic Monitoring, Real-time Performance, PON Optical Module Diagnosis, MAC Address Table Managem, Query UNI Learnt MAC, Service Simulation Test, and More.
- Bottom Buttons:** Refresh, New, Unauthenticated ONU, Update MDU Topology, Close, Help.

**Passo 9:** Clique em **New**



**Passo 10:** Selecione no menu esquerdo a opção **TAGGED**

Em **USER VID** coloque o valor 1000 > Em **CVID** coloque 1000 > Dê OK > Clique em Close

The VLAN tagged frames with specified EtherType on user side will be forwarded by adding CVLAN or CVLAN plus SVLAN, C-Tag CoS, S-Tag CoS.

<b>Common</b>	VPort*: 1	Service Port*: 2
Description:	Administrative Status: Enabled	
<b>User Side</b>	User VID*: 1000	
<b>Network Side</b>	C-VID*: 1000	Automatic Allocation C-VID
S-VID:	S-Tag CoS:	
<b>Other</b>	<input type="checkbox"/> Ingress Traffic Profile <input type="checkbox"/> Egress Traffic Profile CoS List: <input type="checkbox"/> CoS 0 <input type="checkbox"/> CoS 1 <input type="checkbox"/> CoS 2 <input type="checkbox"/> CoS 3 <input type="checkbox"/> CoS 4 <input type="checkbox"/> CoS 5 <input type="checkbox"/> CoS 6 <input type="checkbox"/> CoS 7      CAR Threshold: 100%	

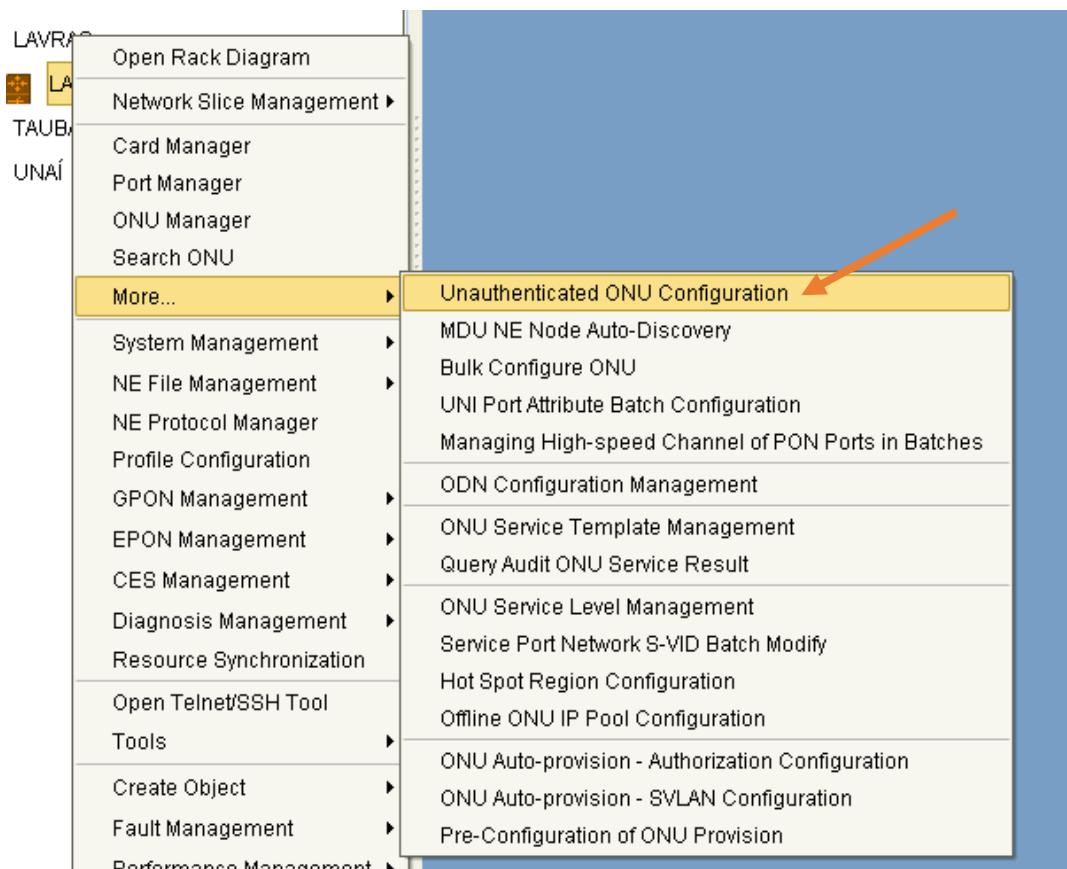
Continuously Adding Service Port

OK Cancel

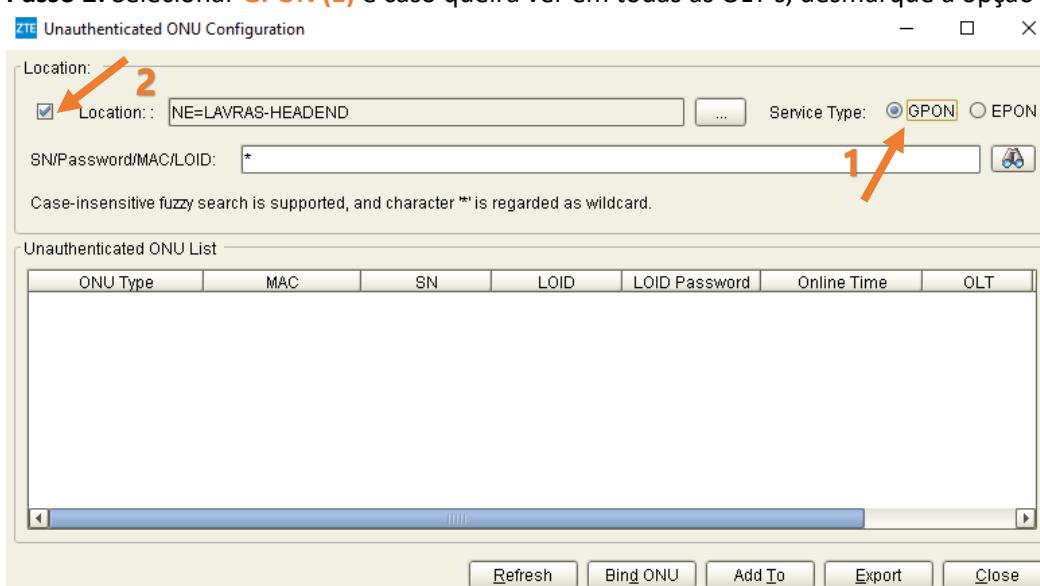
Feito isto, a ONU está provisionada e pode seguir para próxima.

## PROVISIONAMENTO ONU HIBRIDA – MONU | NOVAS INSTALAÇÕES/TROCA DE EQPTO

**Passo 1:** Para localizar os equipamentos disponíveis para provisionamento clicar com botão direito em uma OLT > More > Unauthenticated ONU Configuration



**Passo 2:** Selecionar GPON (1) e caso queira ver em todas as OLT's, desmarque a opção Location (2)



Assim que a ONU/ONT estiver linkada ela irá aparecer na listagem. Para recarregar basta clicar em Refresh.

**Passo 3:** Assim que a ONU aparecer na lista [1], selecione o equipamento e clique em **Add To**

ZTE Unauthenticated ONU Configuration

Location: NE=LAVRAS-HEADEND

SN/Password/MAC/LOID: \*

Case-insensitive fuzzy search is supported, and character '\*' is regarded as wildcard.

Unauthenticated ONU List

ONU Type (Capability)	SN	ONU Password	ONU Password (Hex)	LOID	LOID Password
F670LV9.0	ZTEGD	GD1	47443146353	123456789	123456

1

2

Refresh Bind ONU Add To Export Close

**Passo 4:** Na nova janela Escolher:

1 ONU Type: F601 para dispositivos MONU

2 Vport Mode: GEM Port

3 Name: Código\_Ccontrato

Clicar em Ok

ZTE New ONU

Basic & Extended Parameters Maintenance Parameters

Location: NE: LAVRAS-HEADEND Shelf/Slot/Port: 1/2/5

ONU Basic Attributes

ID\*: 44 Name\*: 1234\_C4321

ONU Type (Capability)\*: 1 F601 VPort Mode: GEM Port

Authentication Mode\*: SN Authentication Value\*: ZTE

Authentication Information at Back-online: SN

Splitter ID:

Management IP and Route

ONU IP: Mask: Management VLAN:

Route Destination: Route Mask: Route Gateway:

Add Topology Node

Parameters with \* are required

OK Cancel

**Passo 5: Selecione o equipamento e selecione ONU PROFILE CONFIGURATION**

The screenshot shows the ZTE ONU Manager interface. On the left, there is a table listing various ONUs with columns for ID, Name, Operational Status, Administrative State, Configured Type, Actual Type, and AuthMode. An ONU with ID 27 is selected and highlighted with a yellow background. On the right, the 'Operations' panel is open, displaying a tree view of management functions. An orange arrow points to the 'ONU Profile Configuration' option under the 'ONU Service Provisioning' section.

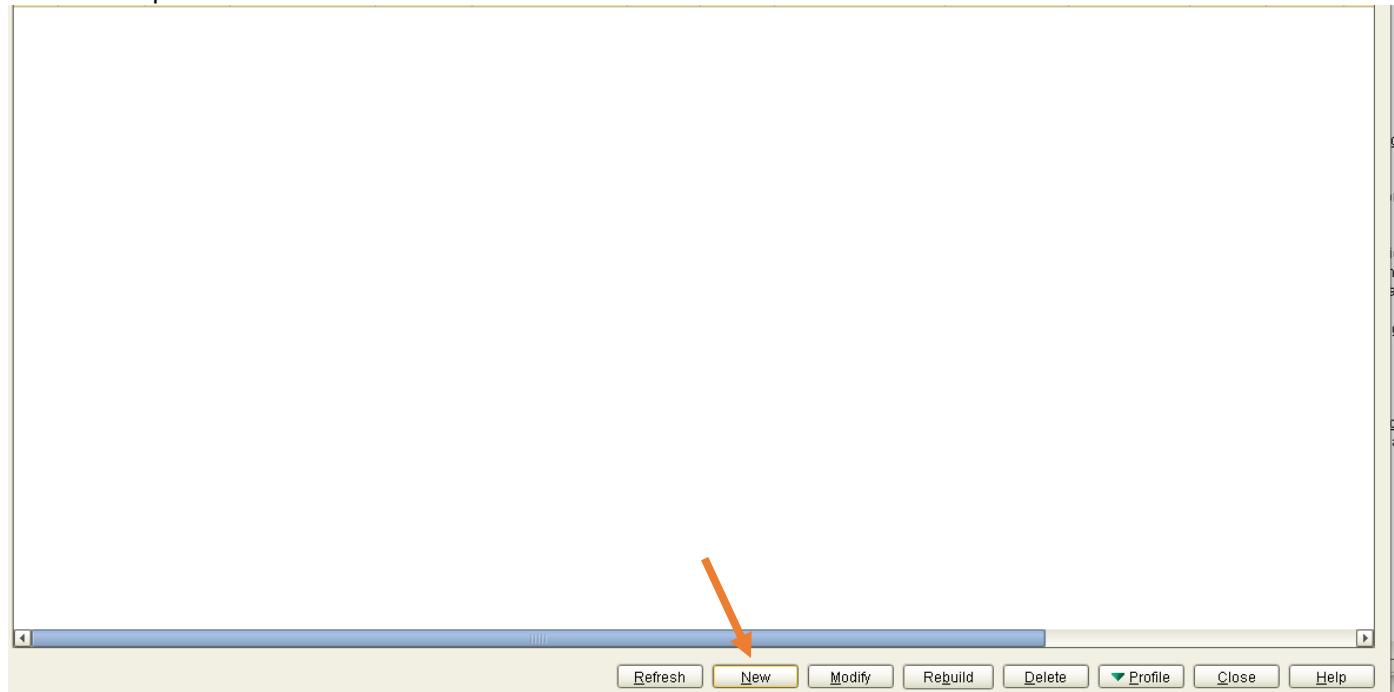
**Passo 6: Em LINE PROFILE, selecione BRIDGE, em SERVICE PROFILE, selecione BRIDGE e dê OK**

The screenshot shows the 'ZTE ONU Profile Configuration' dialog box. It has a 'Location:' field containing 'NE=LOJA, Shelf=1, Slot=1/HFTH, Port=1, ONU=27(176191)'. Below it, there are three configuration sections: 'Profile Type' (radio buttons for 'Unification Profile' and 'Separation Profile', with 'Separation Profile' selected), 'ONU Profile' (dropdown menu set to 'Not Configured'), 'Line Profile' (dropdown menu set to 'BRIDGE'), and 'Service Profile' (dropdown menu set to 'BRIDGE'). At the bottom are 'OK' and 'Cancel' buttons.

**Passo 7:** Selecione novamente o equipamento e clique em **SERVICE PORT**. **Atenção:** Sempre mantenha selecionado o equipamento do cliente ao fazer alterações!

The screenshot shows a software interface for managing network equipment. On the left, there is a table listing various ONUs with columns for Name, Operational Status, Administrative State, Configured Type, Actual Type, and AuthMode. One specific ONU entry is highlighted in yellow. On the right, a navigation tree titled 'Operations' is displayed, with several options expanded. An orange arrow points from the 'Service Port' option under 'ONU Service Provisioning' towards the bottom of the screen. At the bottom of the main window, there is a toolbar with buttons for Refresh, New, Unauthenticated ONU, Update MDU Topology, Close, and Help.

**Passo 8:** Clique em **New**



### Passo 9: Selecione TAGGED

Em **USER VID** coloque o valor **1000** > Em **CVID** coloque **1000** > Dê OK > Clique em Close

The VLAN tagged frames with specified EtherType on user side will be forwarded by adding CVLAN or SVLAN plus SVLAN, C-Tag CoS, S-Tag CoS.

**Common**

VPort\*: 1 Service Port\*: 2  
Description: Administrative Status: Enabled

**User Side**

User VID\*: **1000**

**Network Side**

C-VID\*: **1000** Automatic Allocation C-VID C-Tag CoS:  
S-VID: S-Tag CoS:

**Other**

Ingress Traffic Profile Egress Traffic Profile  
 CoS 0  CoS 1  CoS 2  CoS 3  
 CoS 4  CoS 5  CoS 6  CoS 7 CAR Threshold: 100%

Continuously Adding Service Port

OK Cancel

Feito isto, a ONU está provisionada e pode seguir para próxima!

### PROVISIONAMENTO ONT F670L – FTHC, P20 e outras que não sejam MONU

Para o provisionamento de ONTs diferente de MONU, será preciso realizar mais alguns passos para configuração do PPPOE.

Para diferenciar as ONTs, basta conferir o tipo do equipamento (**Actual Type**) que será provisionado e seguir os passos.

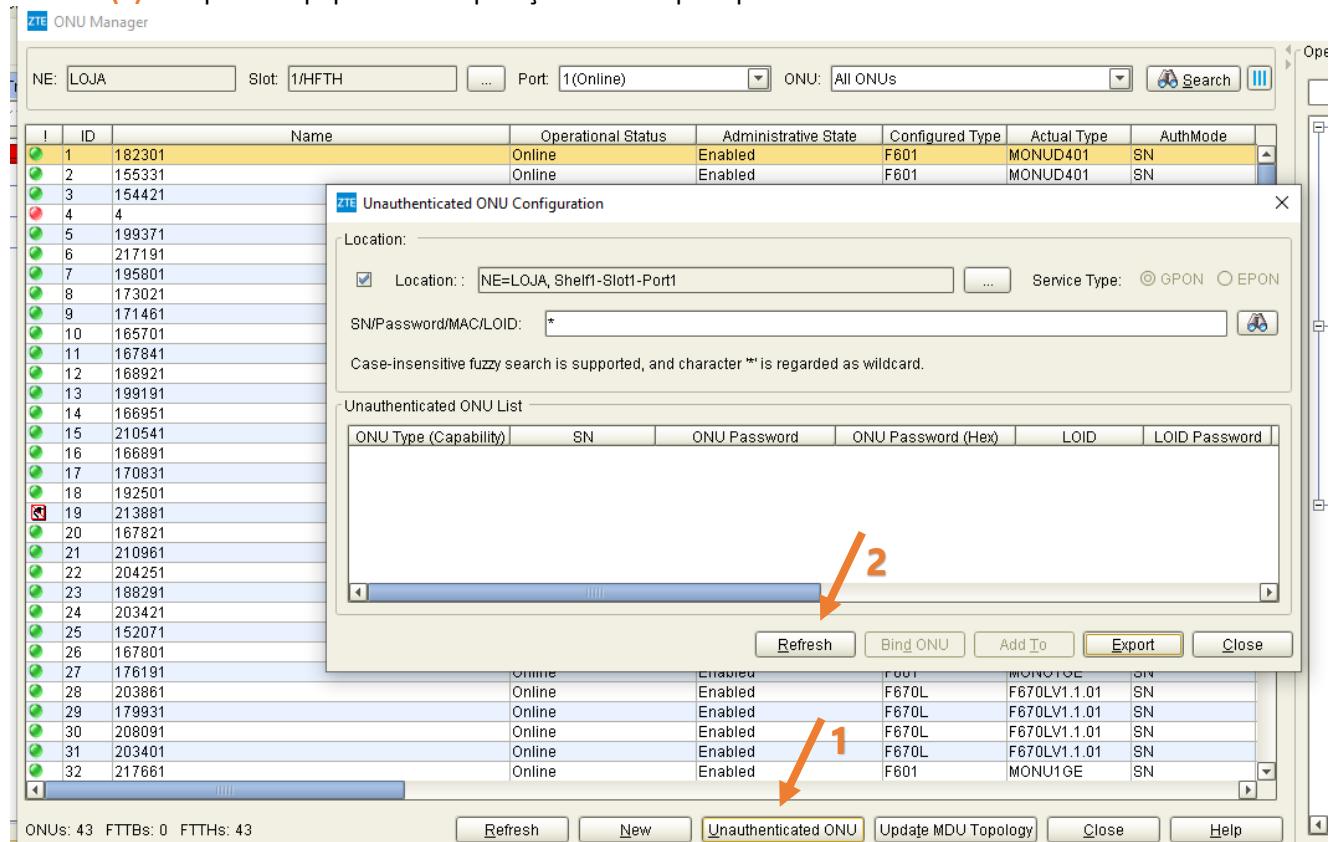
Exemplo:

Configured Type	Actual Type	AuthMode	AuthValue	Physical ID (SN)
F670L	F670LV9.0	SN	ZTEGD070D82F	ZTEGD070D82F
F670L	F670LV9.0	SN	ZTEGD070D7E4	ZTEGD070D7E4
F670L	F670LV9.0	SN	ZTEGD071500C	ZTEGD071500C
F670L	F670LV9.0	SN	ZTEGD07153B4	ZTEGD07153B4
F670L	F670LV9.0	SN	ZTEGD0715417	ZTEGD0715417
F670L	F670LV9.0	SN	ZTEGD071541C	ZTEGD071541C
F670L	F670LV9.0	SN	ZTEGD0715419	ZTEGD0715419
F670L	F670LV9.0	SN	ZTEGD0715415	ZTEGD0715415
F670L	F670LV9.0	SN	ZTEGD0711B00	ZTEGD0711B00
F601	MONU1GE	SN	MONU0099A431	MONU0099A431
F601	MONU1GE	SN	MONU009A4471	MONU009A4471
F601	MONUD401	SN	MONU008231F1	MONU008231F1
F601	MONUD401	SN	MONU001FFB91	MONU001FFB91
F601	MONUD401	SN	MONU00C560E1	MONU00C560E1
F601	MONUD401	SN	MONU00206651	MONU00206651
F601	MONUD401	SN	MONU002040F9	MONU002040F9
F670L	P20	SN	FHTCAF753118	FHTCAF753118
F670L	F670LV9.0	SN	ZTEGD07153CE	ZTEGD07153CE
F670L	F670LV9.0	SN	ZTEGD071500B	ZTEGD071500B

Veja que as que não são MONU são ONTs ZTE e Phyhome, (também podem aparecer outros modelos).

#### PROVISIONAMENTO:

**Passo 1:** Com a porta selecionada e cordão inserido à OLT, clicar em **Unauthenticated ONU (1)** e em seguida **Refresh (2)** até que os equipamentos apareçam na lista para provisionamento.



Aqui você conseguirá distinguir os tipos de ONT.

**Passo 2:** Clicar sobre um MAC, selecionar ADD TO

Na nova janela Escolher:

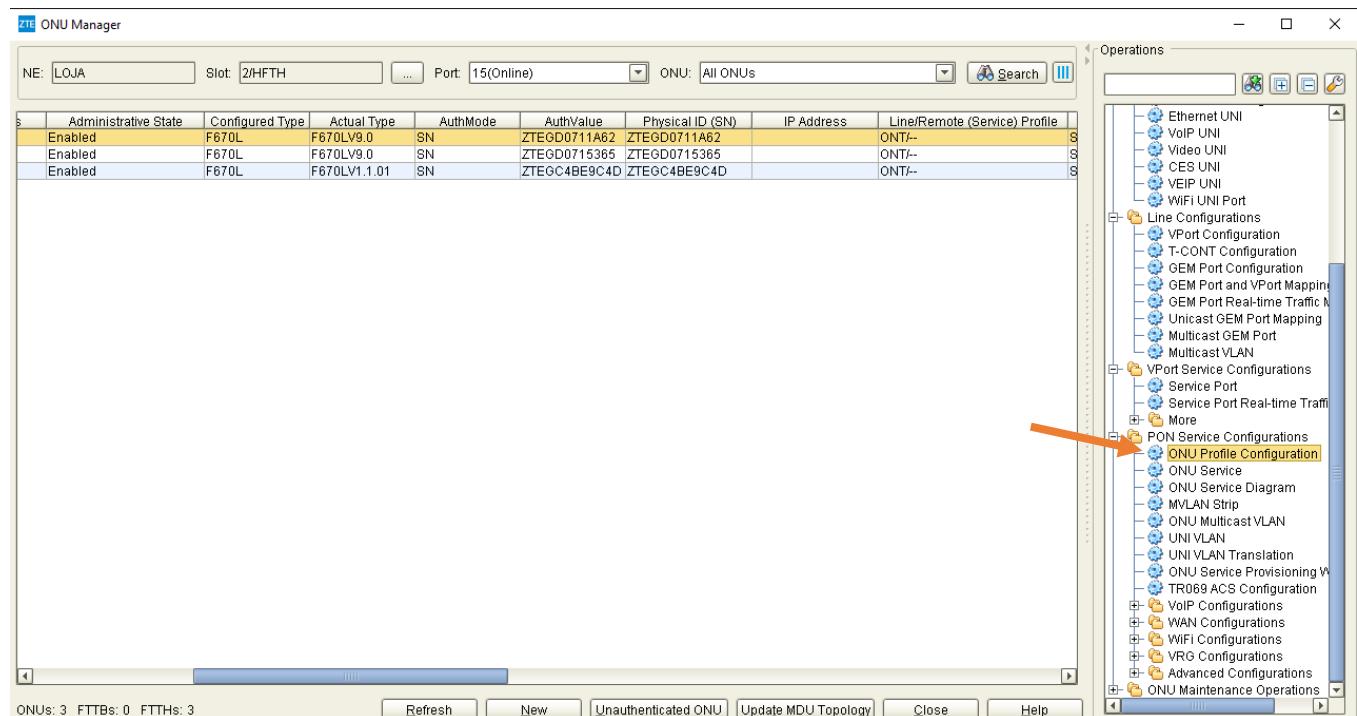
**1 ONU Type:** F670L para dispositivos não-MONU

**2 Vport Mode:** GEM Port

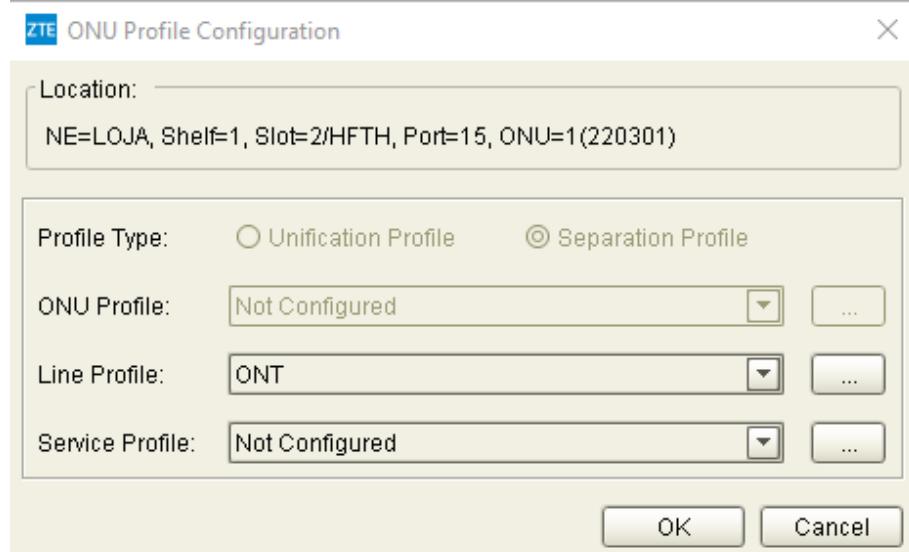
**3 Name:** Código\_Ccontrato

Clicar em Ok

**Passo 3:** Selecione o equipamento adicionado e clique em **ONU PROFILE CONFIGURATION** no menu lateral direito



**Passo 4:** Em **LINE PROFILE**, selecione **ONT**, em **SERVICE PROFILE**, selecione **Not configured** e dê **OK**



**Passo 5:** Selecione novamente o equipamento em provisionamento e clique em SERVICE PORT

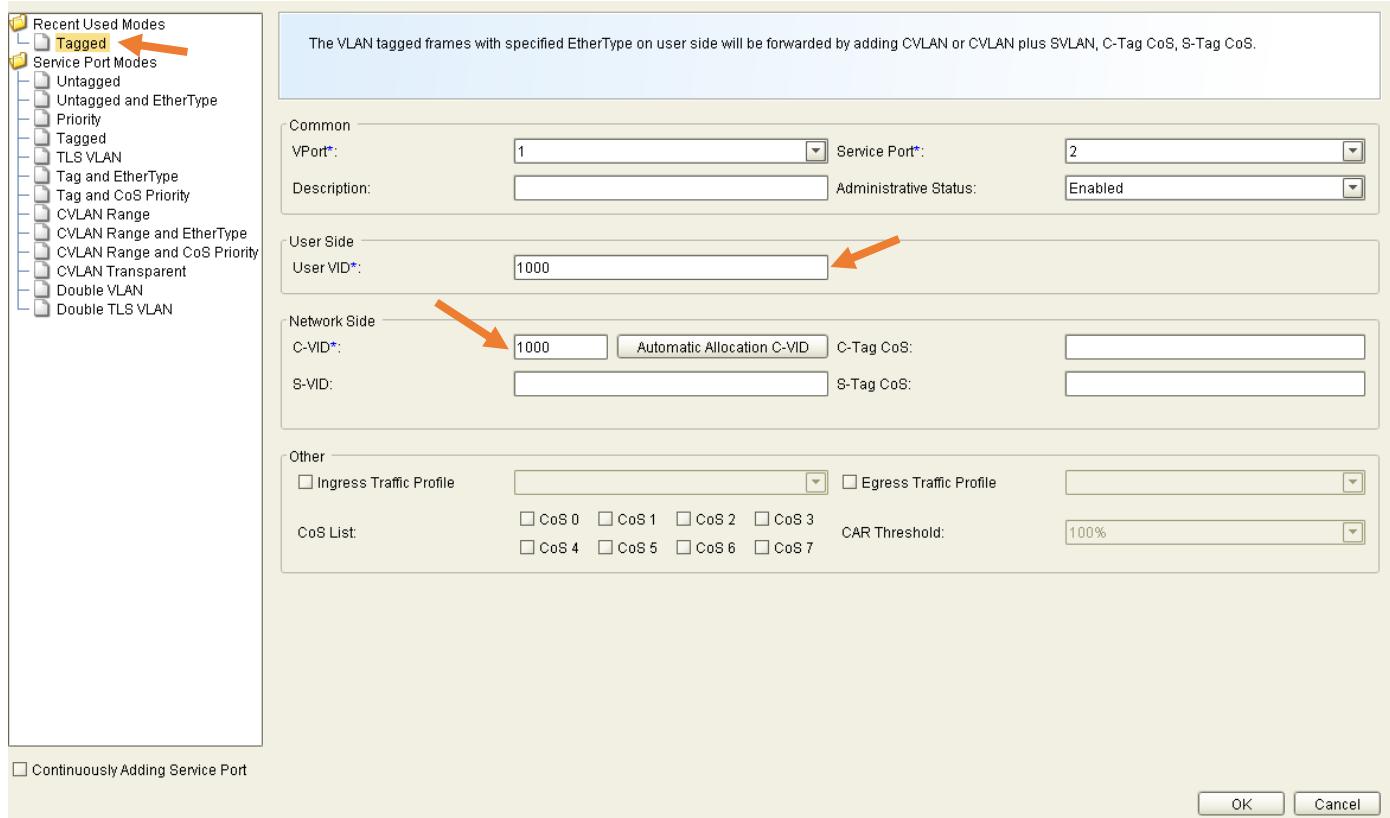
The screenshot shows the 'ONU Maintenance' interface. On the left is a table listing various ONUs with columns: Name, Operational Status, Administrative State, Configured Type, Actual Type, and AuthMode. One row is highlighted in yellow. On the right is a navigation tree under 'Operations' with several options like Details, Enable, Disable, Modify, Delete, Change ONU, Restore to Factory Settings, More, ONU Service Provisioning, ONU Profile Configuration, Non-Profile Mode, Service Port (which is selected and highlighted in yellow), VPort Service Configuration, Service Provision by Template, ONU Extended Configuration, ONU Service Diagram, ONU Service Provisioning Wizard, ONU Monitoring & Diagnose, Alarm Monitoring, Traffic Monitoring, Real-time Performance, PON Optical Module Diagnosis, MAC Address Table Management, Query UNI Learnt MAC, Service Simulation Test, and More.

**Passo 6:** Clique em New



**Passo 7: Selecione TAGGED**

Em **USER VID** coloque o valor **1000** > Em **CVID** coloque **1000** > Dê OK > Clique em Close



**Passo 8: Selecione no menu direito a opção:**

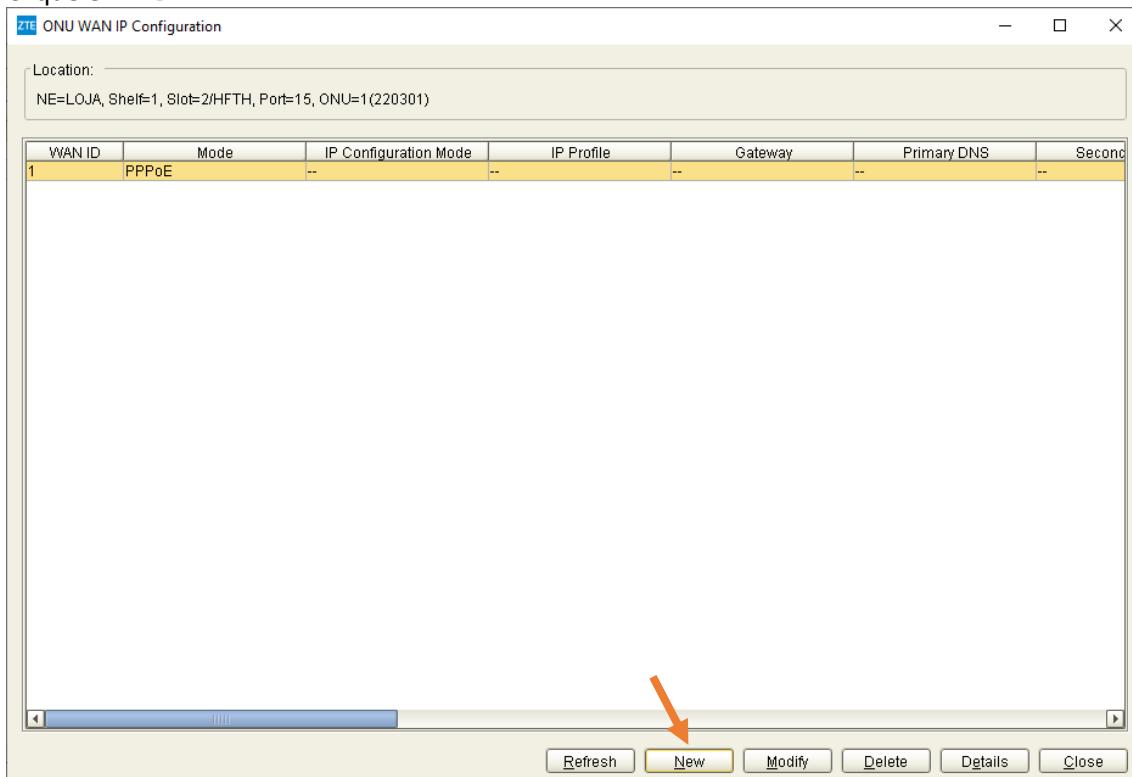
**Wan Configuration**

**> ONU Wan IP Configuration**

The screenshot shows the ZTE ONU Manager interface with the 'WAN Configuration' section selected. On the left, a table lists three ONUs with their details: NE: LOJA, Slot: 2/HFTH, Port: 15(Online), ONU: All ONUs. The table columns include Administrative State, Configured Type, Actual Type, AuthMode, AuthValue, Physical ID (SN), IP Address, and Line/Remote (Service) Profile. The right side features a 'Operations' tree view with a red arrow pointing to the 'ONU WAN IP Configuration' node under the 'WAN Configurations' section.

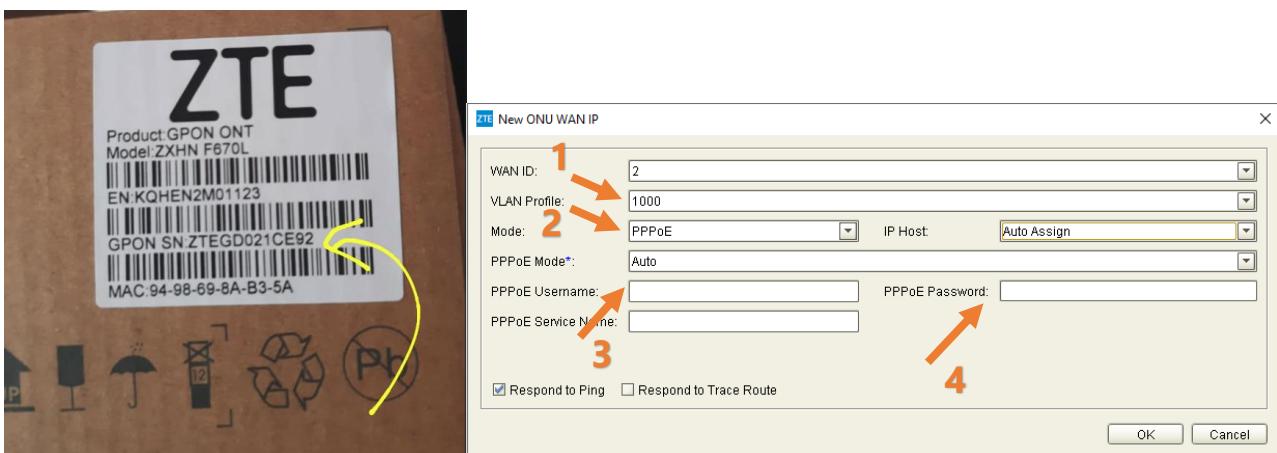
## Passo 9

Clique em **New**



## Passo 10

- 1 **Vlan profile:** 1000
- 2 **Mode:** PPPoE
- 3 **PPPoE Username:** Colocar no username o Serial Number da ONT (exemplo em imagem abaixo)
- 4 **PPPoE Password:** Código do cliente (i-manager)



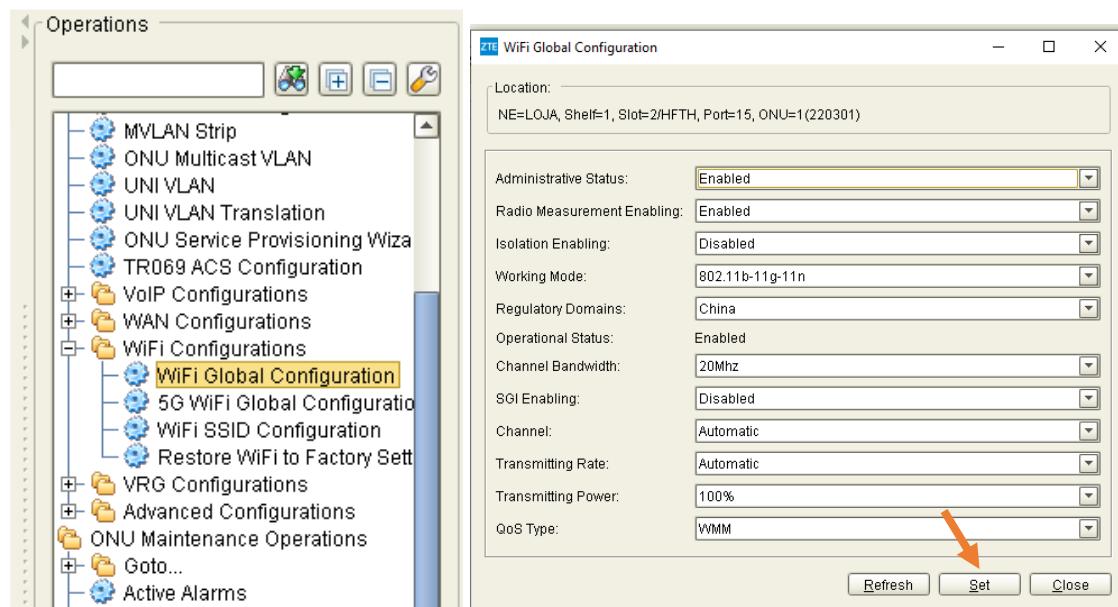
**Passo 11 – Configurando Wifi – Somente quando necessário remotamente! O técnico faz essa configuração in loco ao instalar equipamento.**

Menu direito > **Wifi Configurations**

> **Wifi Global Configuration**

**Administrative Status:** Enabled

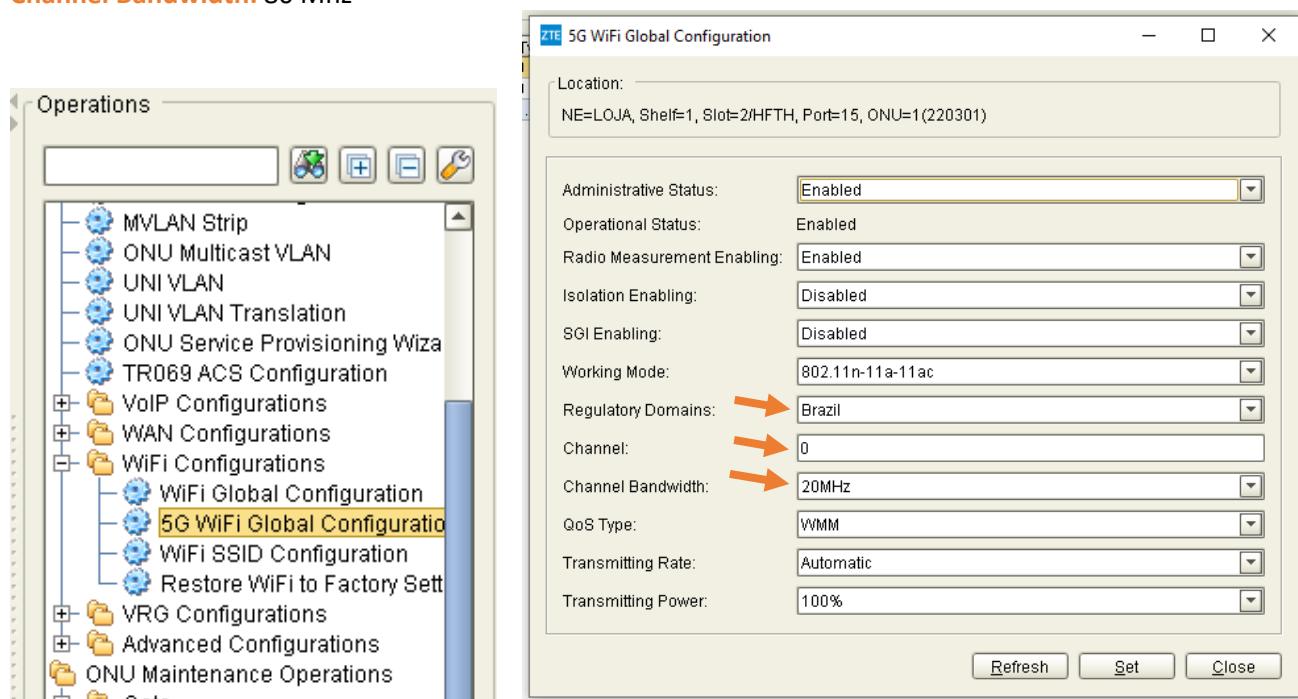
**Radio Measurement:** Enabled  
**Isolation Enabling:** Disabled  
**Regulatory Domains:** China  
**Channel Bandwidth:** 20 MHz  
**Channel:** 6



## Passo 12

Menu direito > **Wifi Configurations**  
> **5G WiFi Global Configuration**

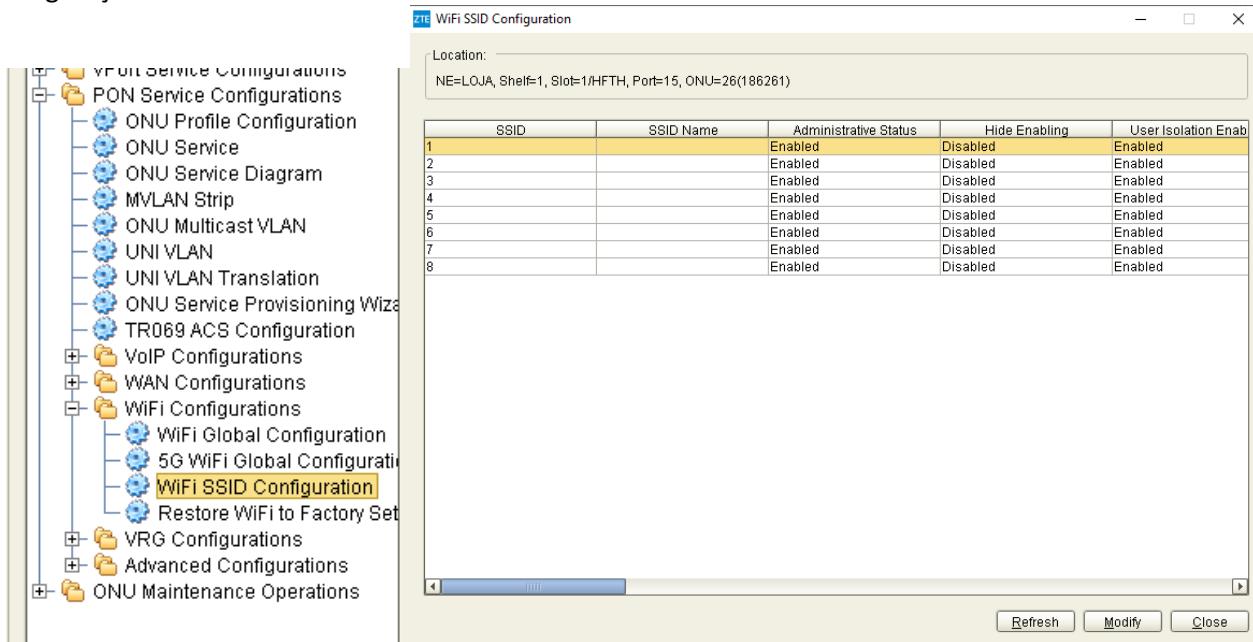
**Regulatory Domains:** Brazil  
**Channel:** 160  
**Channel Bandwidth:** 80 Mhz



### Passo 13

Menu direito > **Wifi Configurations**  
 > **Wifi SSID Configuration**

Configuração da rede WIFI do cliente



As opções 1 a 4 são da rede 2.4Gz

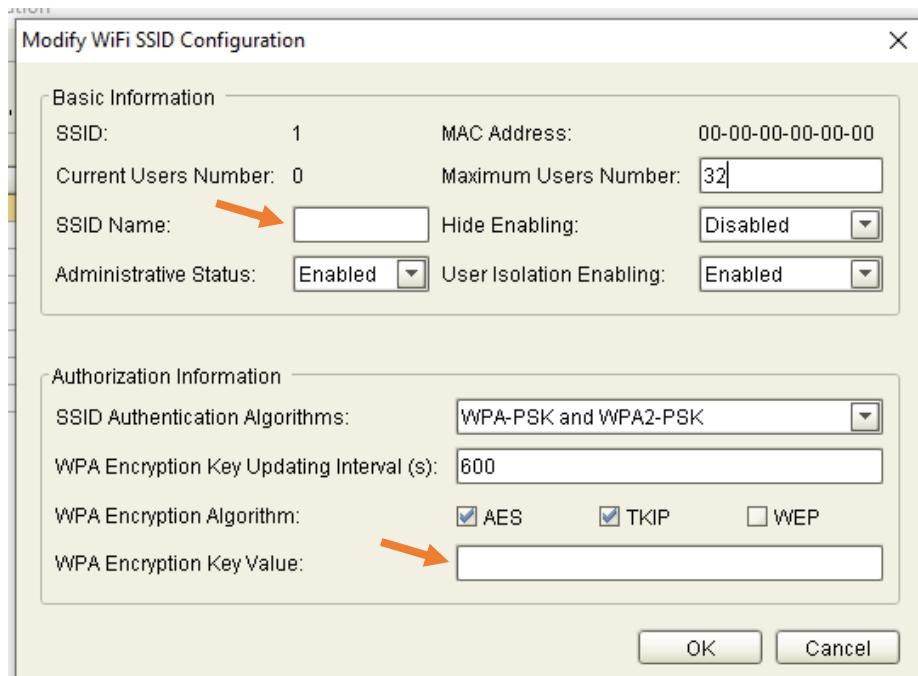
Opções de 5 a 8 são de rede 5Ghz

Selecionar uma rede e clicar em

**Modify** >

**SSID NAME:** Colocar o nome da Rede que o cliente quiser

**WPA Encryption Key Value:** Colocar a senha da rede que o cliente quiser.



## ONT INTELBRAS INTBL

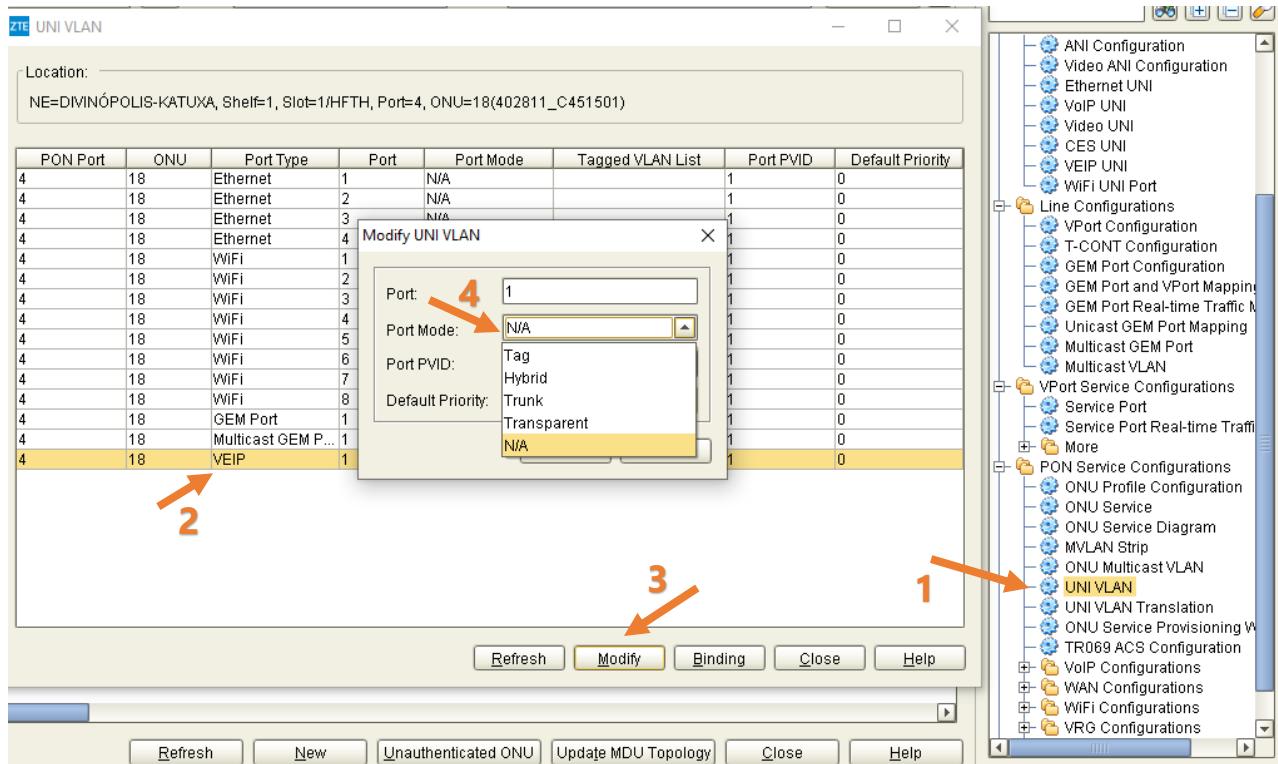
Seguir o mesmo procedimento de F670L

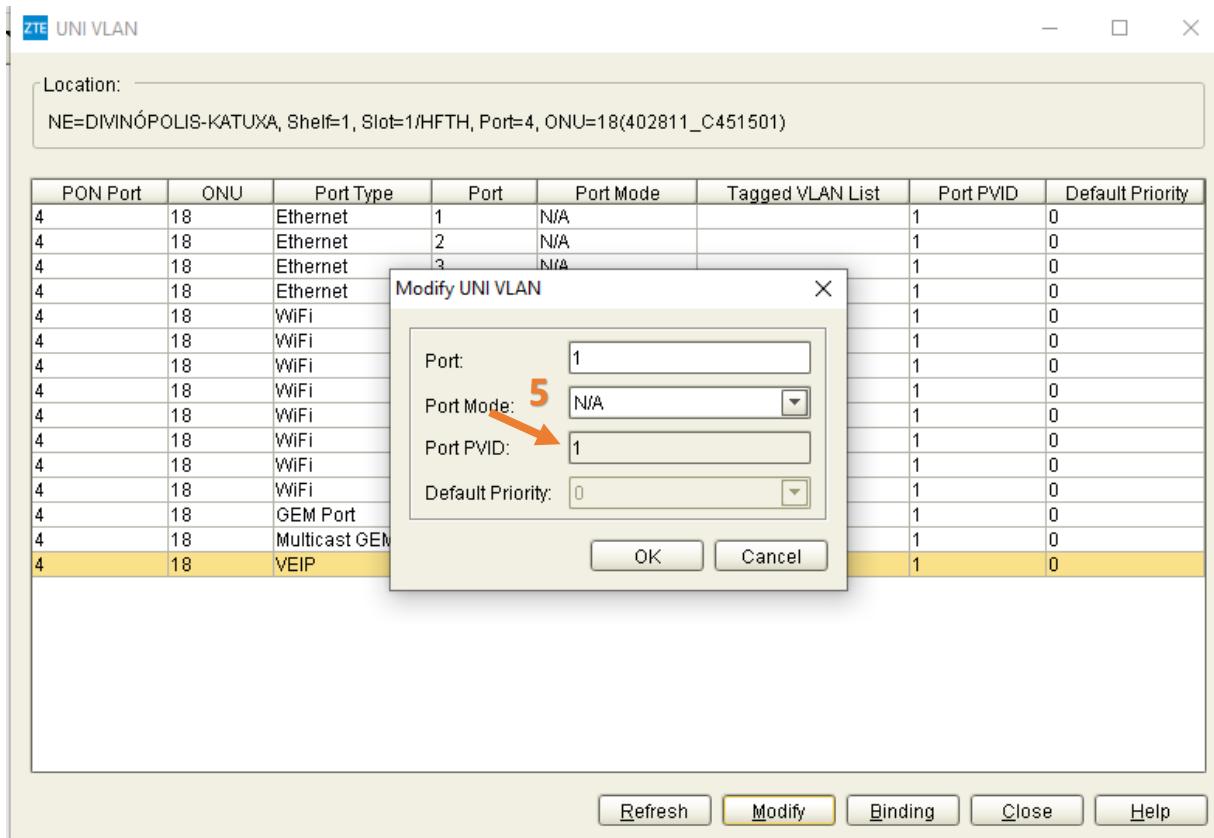
### ONU PROFILE CONFIGURATION > ONT

Nova configuração: Passar vlan 1000 na opção **UNI VLAN**

**1 UNI VLAN > 2 VEIP > 3 MODIFY >**

**4 PORT MODE: TAG > 5 PORT PVID: 1000 > OK**





## CLIENTES B2B (IPD | IPL | IPF)

### iManager

Cadastrar no iNS normalmente com o SN.

### Escopo huawei

Obs.: se for IP Dedicado, não terá cadastro no ins

### NETNUMEN

Configurar manualmente cada opção:

Após a ONT aparecer no Netnumen, clique em Add to e faça a configuração.

### PROVISIONAR CLIENTE VLAN 700 (IP fixo)

Configurar manualmente

**1** Colocar **Onu Type:** ONU(monu)/ONT(zte) = F601(monu)/F670L(zte) | **Vport Mode:** GEM PORT

**2 ONU PROFILE CONFIGURATION:** Not configured

**3 T-CONT Configuration:**

**Name:** Internet

**Bandwidth** 1G

**DBA GAP Mode:** MODE 2

**4 GEM PORT Configuration:**

**GEM PORT ID:** 1

**GEM PORT NAME:** NET

**T-CONT NAME:** 1-INTERNET

**UPSTREAM T CONT PRIORITY QUEUE:** 0

**ENCRYPTION MODE:** DISABLE AES

**5 Service PORT:** VLAN do cliente ex: Vlan do cliente (700)

**6 UNI VLAN:**

**Port mode:** TAG

**PORT PVID:** Vlan do cliente (700)

**7 ONU SERVICE:**

Selecionar apenas VLAN (cuidado para não deixar no vlan+priority)

**VLAN 700, ETHERNET PORT 1**

**PROVISIONAR CLIENTE COM OUTRAS VLANs (IPD)**

Basta seguir os mesmos passos anteriores, porém nos campos que pedir VLAN, incluir a vlan do cliente.



