



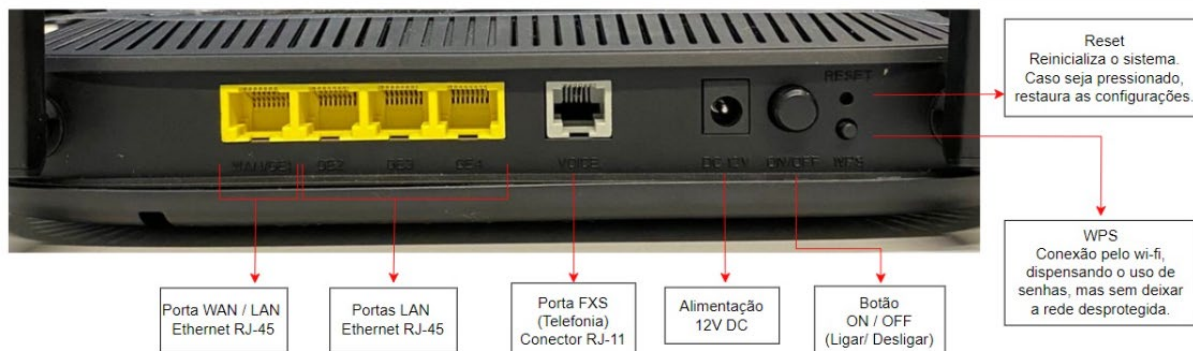
# Guia de Configuração

## ONT AX3000 / ONT AX3000V

## Atenção aos cuidados com a ONU Ax3000

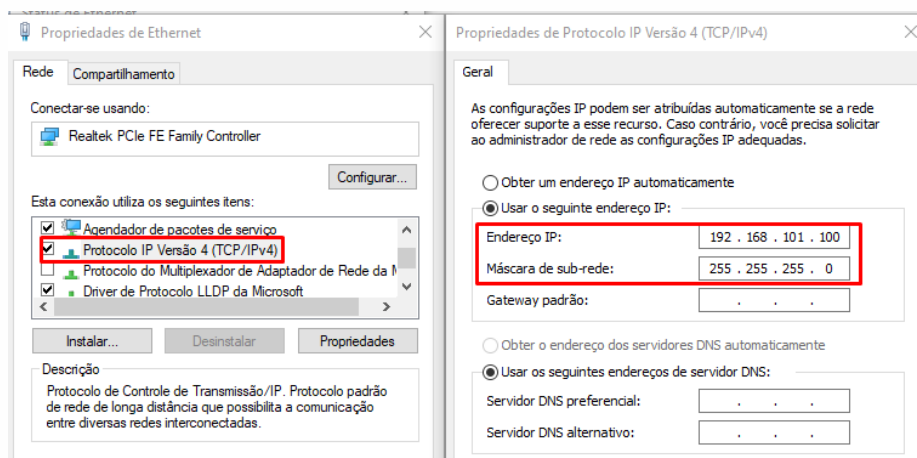
- ✓ Mantenha os equipamentos ópticos limpos e calibrados;
- ✓ Utilize sempre que precisar a caneta de limpeza óptica, para obter o melhor funcionamento do equipamento;
- ✓ Usuário e senha administrador Login: tkth | Senha: tkth.
- ✓ IP de acesso: 192.168.101.1

## 1. Apresentação da ONU



## 2. Acessando a ONU

- Para este primeiro acesso, a conexão será realizada ponto a ponto.
  - Fixar um IP da mesma classe da ONU em sua placa de rede no PC. IP de acesso da ONU 192.168.101.1
- Abaixo segue um exemplo:



- Abra o prompt de comando e digite **ping 192.168.101.1 -t**, certifique-se que o PC responde ao ping.

```
C:\Users\Suporte-2>ping 192.168.101.1 -t

Disparando 192.168.101.1 com 32 bytes de dados:
Resposta de 192.168.101.1: bytes=32 tempo<1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo=1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo=1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo=1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo=1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo=1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo<1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo=1ms TTL=64
Resposta de 192.168.101.1: bytes=32 tempo=1ms TTL=64
```

- Acesse seu navegador de preferência e digite o IP 192.168.101.1. Utilizar o acesso administrador.

**Login:** tkth

**Senha:** tkth



### 3. Criando conexões

Esta ONU trabalha em 3 modos de operação:

- PPPoE;
- IPoE;
- Bridge.

#### 3.1. Conexão PPPoE

- Na barra de menu -> **Wan**

##### PON WAN

This page is used to configure the parameters for PONWAN

ppp0_nas0_0	
Enable VLAN:	<input type="checkbox"/>
VLAN ID:	<input type="text"/>
802.1p_Mark	<input type="text"/>
Multicast Vlan ID: [1-4095]	<input type="text"/>
Channel Mode:	PPPoE
Enable Bridge:	<input type="checkbox"/>
Bridge Mode:	Bridged Ethernet (Transparent Bridging)
Enable NAPT:	<input checked="" type="checkbox"/>
Admin Status:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Connection Type:	INTERNET
MTU: [1280-1492]	1492
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Enable IGMP-Proxy:	<input type="checkbox"/>
Enable MLD-Proxy:	<input type="checkbox"/>
IP Protocol:	IPv4/IPv6

### 3.2. Configurando PPPoE em IPv4/IPv6

PPP Settings:	
UserName:	<input type="text" value="alipio"/>
Password:	<input type="password" value="*****"/> <input type="checkbox"/> Show Password
Type:	<input type="text" value="Continuous"/>
Idle Time (sec):	<input type="text"/>
Authentication Method:	<input type="text" value="AUTO"/>
AC-Name:	<input type="text"/>
Service-Name:	<input type="text"/>

IPv6 WAN Setting:	
Address Mode:	<input type="text" value="Stateless DHCPv6(SLAAC)"/>
Request Options:	<input checked="" type="checkbox"/> Request Prefix
Request DNS :	<input checked="" type="radio"/> on <input type="radio"/> off
Primary IPv6 DNS:	<input type="text"/>
Secondary IPv6 DNS:	<input type="text"/>

Obs: Após criada a conexão, somente alguns parâmetros podem ser alterados. Caso não consiga alterar o parâmetro desejado, deverá excluir a conexão e criá-la novamente.

- Em **Vlan type**: Configurar somente se trabalhar com Vlan;
- Em **IPv6 WAN Setting**: Configurar somente se trabalhar com o protocolo IPv6.

### 3.3. Criando Conexão IPoE

#### PON WAN

This page is used to configure the parameters for PONWAN

ppp0_nas0_0	
Enable VLAN:	<input type="checkbox"/>
VLAN ID:	<input type="text"/>
802.1p_Mark	<input type="text"/>
Multicast Vlan ID: [1-4095]	<input type="text"/>
Channel Mode:	IPoE
Enable Bridge:	<input type="checkbox"/>
Bridge Mode:	Bridged Ethernet (Transparent Bridging)
Enable NAPT:	<input checked="" type="checkbox"/>
Admin Status:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Connection Type:	INTERNET
MTU: [1280-1500]	1500
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Enable IGMP-Proxy:	<input type="checkbox"/>
Enable MLD-Proxy:	<input type="checkbox"/>
IP Protocol:	IPv4/IPv6

### 3.4. Configuração de IP fixo ou DHCP

WAN IP Settings:	
Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP
Local IP Address:	<input type="text"/>
Gateway:	<input type="text"/>
Subnet Mask:	<input type="text"/>
IP Unnumbered:	<input type="checkbox"/>
Request DNS:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Primary DNS Server:	<input type="text"/>
Secondary DNS Server :	<input type="text"/>

### 3.5. Configuração de IPoE IPv6

IPv6 WAN Setting:	
Address Mode:	Stateless DHCPv6(SLAAC) ▾
Request Options:	<input checked="" type="checkbox"/> Request Prefix
Request DNS :	<input checked="" type="radio"/> on <input type="radio"/> off
Primary IPv6 DNS:	<input type="text"/>
Secondary IPv6 DNS:	<input type="text"/>

Obs: Após criada a conexão, somente alguns parâmetros podem ser alterados. Caso não consiga alterar o parâmetro desejado, deverá excluir a conexão e criá-la novamente.

- Em **Vlan type**: Configurar somente se trabalhar com Vlan;
- Em **IPv6CP**: Configurar somente se trabalhar com o protocolo IPv6.

## 4. Configuração Wifi

### 4.1. Configurando o Wifi 5GHz

No menu WLAN -> wlan0 (5GHz) -> Basic Information, alterar o nome da rede 5GHz

Status	LAN	WLAN	WAN	Services	Advance	Diagnostics	Admin	Statistics	
<b>General Setting</b> <b>wlan0 (5GHz)</b> > Basic Settings > Advanced Settings > Security > Access Control > Site Survey > WPS > Status			<b>WLAN Basic Settings</b> This page is used to configure the parameters for WLAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.						
			<input type="checkbox"/> Disable WLAN Interface						
			Band: 5 GHz (A+N+AC+AX) ▾						
			Mode: AP ▾ <input type="button" value="Multiple AP"/>						
			<b>SSID:</b> Think_Teste_5G						
			Channel Width: 160MHz ▾						
			Control Sideband: Auto ▾						
			Channel Number: Auto(DFS) ▾						
			Radio Power (%): 100% ▾						
			Associated Clients: <input type="button" value="Show Active WLAN Clients"/>						
			<input type="button" value="Apply Changes"/>						
<b>wlan1 (2.4GHz)</b> Easy Mesh									

## 4.2. Alterar a senha do Wifi 5GHz

No menu WLAN -> wlan0 (5GHz) -> Security, alterar a senha da rede 5GHz

Status	LAN	WLAN	WAN	Services	Advance	Diagnostics	Admin	Statistics
<b>WLAN Security Settings</b> This page allows you setup the WLAN security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.								
<b>General Setting</b> wlan0 (5GHz) > Basic Settings > Advanced Settings <b>&gt; Security</b> > Access Control > Site Survey > WPS > Status wlan1 (2.4GHz) Easy Mesh			SSID Type: <input type="text" value="Root AP - Think_Test_5G"/> Encryption: <input type="text" value="WPA2"/> Authentication Mode: <input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key) IEEE 802.11w: <input type="radio"/> None <input checked="" type="radio"/> Capable <input type="radio"/> Required SHA256: <input checked="" type="radio"/> Disable <input type="radio"/> Enable WPA2 Cipher Suite: <input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES Group Key Update Timer: <input type="text" value="86400"/> Pre-Shared Key Format: <input type="text" value="Passphrase"/> <b>Pre-Shared Key:</b> <input type="text" value="....."/> <input type="checkbox"/> Show Password <b>Apply Changes</b>					

## 4.3. Configurando o Wifi 2.4GHz

No menu WLAN -> wlan1 (2.4GHz) -> Basic Information, alterar o nome da rede 2.4GHz

Status	LAN	WLAN	WAN	Services	Advance	Diagnostics	Admin	Statistics
<b>WLAN Basic Settings</b> This page is used to configure the parameters for WLAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.								
<b>General Setting</b> wlan0 (5GHz) <b>wlan1 (2.4GHz)</b> <b>&gt; Basic Settings</b> > Advanced Settings > Security > Access Control > Site Survey > WPS > Status Easy Mesh			<input type="checkbox"/> Disable WLAN Interface Band: <input type="text" value="2.4 GHz (B+G+N+AX)"/> Mode: <input type="text" value="AP"/> <input type="button" value="Multiple AP"/> <b>SSID:</b> <input type="text" value="Think_Test"/> Channel Width: <input type="text" value="20/40MHz"/> Control Sideband: <input type="text" value="Upper"/> Channel Number: <input type="text" value="Auto"/> Radio Power (%): <input type="text" value="100%"/> Associated Clients: <input type="text" value="Show Active WLAN Clients"/> <b>Apply Changes</b>					

#### 4.4. Alterar a senha do Wifi 2.4GHz

No menu WLAN -> wlan1 (2.4GHz) -> Security, alterar a senha da rede 2.4GHz

Status	LAN	WLAN	WAN	Services	Advance	Diagnostics	Admin	Statistics
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**WLAN Security Settings**  
This page allows you setup the WLAN security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

SSID Type:	Root AP - Think_Teste
Encryption:	WPA2
Authentication Mode:	<input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key)
IEEE 802.11w:	<input type="radio"/> None <input checked="" type="radio"/> Capable <input type="radio"/> Required
SHA256:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
WPA2 Cipher Suite:	<input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES
Group Key Update Timer:	86400
Pre-Shared Key Format:	Passphrase
Pre-Shared Key:	..... <input type="checkbox"/> Show Password

**Apply Changes**

#### 5. Configuração de Mesh

Status	LAN	WLAN	WAN	Services	Advance	Diagnostics	Admin	Statistics
--------	-----	------	-----	----------	---------	-------------	-------	------------

**EasyMesh Interface Setup**  
This page is used to configure the parameters for EasyMesh feature of your Access Point.

Device Name:	easy1
Role:	<input checked="" type="radio"/> Controller <input type="radio"/> Disabled

**Apply Changes**



## 6. Habilitar acesso remoto

Em Admin -> ACL, por padrão a porta LAN vem desabilitada na configuração do acesso remoto, antes de habilitar o acesso pela WAN, deve-se habilitar a porta LAN.

**ACL Configuration**  
 This page is used to configure the IP Address for Access Control List. If ACL is enabled, only the IP address in the ACL Table can access CPE. Here you can add/delete the IP Address.

ACL Capability:  Disable  Enable Apply Changes

Enable:

Interface: LAN

Start IP Address: 192.168.101.1

End IP Address: 192.168.101.254

ServiceName	LAN
Any	<input type="checkbox"/>
TELNET	<input type="checkbox"/>
FTP	<input type="checkbox"/>
TFTP	<input type="checkbox"/>
HTTP	<input checked="" type="checkbox"/>
HTTPS	<input type="checkbox"/>
SSH	<input type="checkbox"/>
PING	<input checked="" type="checkbox"/>

Add Update Edited

Select	State	Interface	IP Address	Services	Port
<input checked="" type="radio"/>	Disable	LAN	192.168.101.1-192.168.101.254	http,ping	80

Delete Selected

### 6.1. Habilitar o acesso da LAN

**ACL Configuration**  
 This page is used to configure the IP Address for Access Control List. If ACL is enabled, only the IP address in the ACL Table can access CPE. Here you can add/delete the IP Address.

ACL Capability:  Disable  Enable Apply Changes

Enable:

Interface: LAN

Start IP Address: 192.168.101.1

End IP Address: 192.168.101.254

ServiceName	LAN
Any	<input type="checkbox"/>
TELNET	<input type="checkbox"/>
FTP	<input type="checkbox"/>
TFTP	<input type="checkbox"/>
HTTP	<input checked="" type="checkbox"/>
HTTPS	<input type="checkbox"/>
SSH	<input type="checkbox"/>
PING	<input checked="" type="checkbox"/>

Add Update Edited

Select	State	Interface	IP Address	Services	Port
<input checked="" type="radio"/>	Disable	LAN	192.168.101.1-192.168.101.254	http,ping	80

Delete Selected

Select	State	Interface	IP Address	Services	Port
<input type="radio"/>	Enable	LAN	192.168.101.1-192.168.101.254	http,ping	80

## 6.2. Habilitar o acesso remoto na porta WAN

### ACL Configuration

This page is used to configure the IP Address for Access Control List. If ACL is enabled, only the IP address in the ACL Table can access CPE. Here you can add/delete the IP Address.

ACL Capability:  Disable  Enable Apply Changes

Enable:

Interface: WAN

Start IP Address: 0.0.0.0

End IP Address: 255.255.255.255

ServiceName	WAN	Port
TELNET	<input type="checkbox"/>	23
FTP	<input type="checkbox"/>	21
TFTP	<input type="checkbox"/>	69
HTTP	<input checked="" type="checkbox"/>	80
HTTPS	<input checked="" type="checkbox"/>	443
SSH	<input type="checkbox"/>	22
PING	<input checked="" type="checkbox"/>	

*Caso queira alterar a porta de acesso* ←

Add Update Edited

ACL Table					
Select	State	Interface	IP Address	Services	Port
<input type="radio"/>	Enable	LAN	192.168.101.1-192.168.101.254	http,ping	80

Delete Selected

ACL Table					
Select	State	Interface	IP Address	Services	Port
<input type="radio"/>	Enable	LAN	192.168.101.1-192.168.101.254	http,ping	80
<input type="radio"/>	Enable	WAN	0.0.0.0-255.255.255.255	http,https,ping	80,443

## 6.3. Após finalizado reinicializar a ONU

Status LAN WLAN WAN Services Advance Diagnostics Admin Statistics

Admin

- > EPON Settings
- > Commit/Reboot
- > Backup/Restore

**Commit and Reboot**

This page is used to commit changes to system memory and reboot your system.

Commit and Reboot:

## 7. Configurando VoIP

Port	Number	Status
1-Main Proxy	8009001	Registered
1-Backup Proxy		Disabled

## 8. CONTROLE DE REVISÃO

REVISÃO	DESCRIÇÃO	DATA
00	CRIAÇÃO DO DOCUMENTO	21/07/24