Habilitando a OLT OT-8110T para filtrar e encaminhar apenas os TAGs desejados

Descrição

O tutorial publicado no Wiki OverTek (<u>http://wiki.overtek.com.br</u>), "Qual a forma mais fácil de permitir que TAG-VLANs sejam encaminhados pela OLT e ONU?" ensina habilitar a opção "*Allow VLAN Tags on Simple Bridge*".

Contudo, esta opção, permite que a OLT encaminhe qualquer tag. Para alguns cenários, talvez seja desejado encaminhar apenas tags específicos. Neste caso o tutorial abaixo descreve passo a passo como fazer isso.

Passos

Acesse a OLT OT-8110T pelo software proprietário. Caso tenha dúvidas, siga o tutorial: <u>http://wiki.overtek.com.br/index.php/OLTs - ONUs</u> Acessando a OLT via SOFTWARE PROPRIETÁRIO

Habilitando:

- 1- Clicar opção "Traffic Mgmnt" da OLT.
- 2- Em seguida, "Bridging Cfg".
- 3- Botão "Advanced".
- 4- Na outra tela marcar a opção "Allow VLAN TagsonSimple Bridge"
- 5- Clicar em "Apply".

OLT MAC-E01005290230	1	
Network Params. Loop Length DBA Ports	Traffic Mgmnt. IGMP MDIO/GPI	O PPPoE Alarms Info
L3 Cfg. L3 Tables Bridging Cfg. Filtering	Adv Filtering L2 Static Table L2 Dyna	amic Table View Host C + +
Choose Logical Link	Bridging Parameters	
Logical Link: C07E402213A8	Bridging Mode: Simple Bridged	•
	Entry Limit: 64	
	Apply Refresh	3 Advanced

Advanced Bridging Configurat	tion	
General TOS/COS Mapping		
Age Limit (0=disabled):	0 • 8.75 ms.	Downstream frame reset aging
Number of Bridged VLANs:	24	Mallow simple bridging
MAC Learning overwrite	Discard Unknown MAC	4 Allow VLAN Tags on Simple Bridge
	5App	Ny Revert Done

Configurando o filtro na OLT para passar somente as vlans desejadas:

- 1- Clicar na opção "Filtering" da OLT:
- 2- Selecionar a Porta Port: Epon-0
- 3- Selecionar onde será aplicado o filtro Filter: Port ou Uplink
- 4- Campo "LINK" esta desabilitado para realizar alterações.
- 5- Informar o nível da regra RuleLevel: 2

Criando Regras do Filtro:

- 6- Selecionar o filtro Field Select: 04 Vlan
- 7- Informar o Operador Operator: <>
- 8- Informar o valor do campo Lookup Val: Informar o valor em hexadecimal.
- Ex: Vlan 100 equivale a 64 hexadecimal. Vlan 200 equivale a C8 hexadecimal.
- 9- Clicar em " > " para adicionar o filtro ou clicar no botão " < " para remover o filtro.
- 10- Clicar no botão "Add" para aplicar as alterações.

OLT MAC-E01005290230				
Network Params. Loop Length DB	A Ports T	raffic Mgmnt.	IGMP MDIO/GPIO P	PPoE Alarms Info
L3 Cfg. L3 Tables Bridging Cfg.	Filtering Adv I	Filtering L2 St	atic Table L2 Dynamic T	Table View Host C 💶 🕨
2 Port: EPON-0 💌	Priority Field	Select Ope	rator Value	┐ ║
3 Filter: ⊙ Port ○ Link	2 04 - V	LAN <>	0x0000000064	4
4 Link: C07E402213A -	04 - V	LAN <>	0x0000000000	3
5 Rule Level: 2				
10 Add Delete				
6 Field Select: 04 - VLAN	▼ 9 > F	Field	Operator	Lookup Value
7 Operator: <		4 - VLAN	<>	0x00000000064
8 Lookup Val: Loves	<u> </u>	H - VLAN	<>	0x00000000000
Joxed				

Configuração de Rules na ONU

Para exemplificar, será configurado as *Rules* na ONU conforme cenário abaixo:



Por padrão a porta EPON da ONU na opção *Rules* está configurada conforme abaixo:

Active Alarms Ports Rate Ctrl Edit Fields Rules Q Cfg. IGMP/VLAN RSTP Low Level Lpbk Test Info Advanced Rules Old Filtering Old Classification Modify Clauses Port: EPON-0	1
Advanced Rules Old Filtering Old Classification	
Port: EPON-0 Modify Clauses	
Modify Rule Field Select Op Value	
02 - LLID Index == 0x00000000000000000000000000000000	
Precedence: 12 Volatile	
UNI Port: 1 A Queue: 0	
New Delete Duplicate	
V Pri Action Parameters Field Select Op Value	
12 Set Destination; Forward UNI Port=2, Q=0 02 - LLID Index == 0x0000000000000000	
12 Set Destination; Forward UNI Port=1, Q=0 02 - LLID Index == 0x00000000000000000000000000000000	
Erase All Rules	
Add Delete Refresh Flags: Stop Traffic Apply Flags Only	

Configurado as *Rules* para Deletar Vlan 100 na ONU na porta EPON.

Clicar em Rules na ONU

- 1- Port: Epon-0
- 2- Modify Rule:

Action: "Delete Vlan Tag"

3- Modify Clauses:

Field Select: 04 – Eth VID Op: == Value: 100 (valor da Vlan) o software já converte de decimal para hexadecimal.

4- Botão "Add"

	ONU N	1AC-C07E402213A8							- • •
Ac	tive Alar	ms Ports Rate Ctrl I	Edit Fields Rules	Q Cfg. IGMP/V	LAN RS	STP	Low L	evel Lpbk Test	Info
A	dvanced	Rules Old Filtering Old	Classification						
1	1 Port: EPON-0 - Modify Clauses								
	-Modify	Rule		Field	Select		Ор	Value	
2	Action:	Delete VLAN Tag	-	3 04 - Eth VI)		(0x000000000000000000000000000000000000	064
	Preced	ence: 12 🔻 🗌 Volat	ile						
					1				
				New		Dele	te	Duplicate	
	V Pri	Action	Parameters	Field Sele	ct	Ор		Value	
l	12	Delete VLAN Tag		04 - Eth VID			0x000	0000000000064	
	12	Set Destination; Forward	UNI Port=2, Q=0	02 - LLID Index		==	0x000	000000000000000001	
	12	Set Destination; Forward	UNI Port=1, Q=0	02 - LLID Index		==	0x000	000000000000000	
1	4 Erase All Rules								
	Ad	d Delete	Refresh Fl	ags: 🗌 Stop Tr	affic	Ар	ply Fla	ags Only	
				i kesum	: ITATIIC				

Configura as *Rules* para Deletar a Vlan 200 na ONU na porta EPON.

Clicar em Rules na ONU

- 1- Port: Epon-0
- 2- ModifyRule:

Action: "Delete Vlan Tag"

3- ModifyClauses:

Field Select: 04 – Eth VID Op: == Value: 200 (valor da Vlan) o software já converte de decimal para hexadecimal.

4- Botão "Add"

4	0		IAC-C07E402213A8					- • •			
A	Active Alarms Ports Rate Ctrl Edit Fields Rules Q Cfg. IGMP/VLAN RSTP Low Level Lpbk Test Info										
1	Advanced Rules Old Filtering Old Classification										
1	1 Port: EPON-0 ▼										
	-M	lodify	Rule		Field Select		Op Value				
2		ction	Delete VI AN Tag		3 04 - Eth VID		== 0x0000000000000000	0C8			
	^	cuon.									
	P	reced	ence: 12 💌 🗌 Vola	tile							
					New	Dele	ata Duplicata				
						Dele					
	v	Dei	Action	Parameters	Field Select	0.0	Value	1			
	-	12	Delete VI AN Tag	Farameters	04 - Eth VID		0×000000000000000000000000000000000000				
	H	12	Delete VLAN Tag		04 - Eth VID		0x0000000000000000000000000000000000000				
		12	Set Destination: Forward	UNI Port=2, O=0	02 - LLID Index		0x000000000000000000000000000000000000				
	12 Set Destination; Forward UNI Port=1, O=0 02 - LLID Index == 0x00000000000000000000000000000000000										
		4									
	[[""	Ad	d Delete	Refresh Fl	ags: Stop Traffic	Ac	poly Flags Only				
	<u></u>				Resume Traffic						

Por padrão a porta USER1 da ONU na opção Rules esta configurada conforme abaixo:

ONU MAC Active Alarms Advanced Ru	C-C07E402213A8 Ports Rate Ctrl I les Old Filtering Old	Edit Fields Rules	Q Cfg. IGMP/VLAN RSTP Low Level Lpbk Test Info
Port: User Modify Rul Action: Se Precedenc Link Idx:	e et Destination; Forward e: 12 Volat 0 Queue:	d 🔽	Modify Clauses Field Select Op Value 00 - Eth DA T 0x00000000000000000000000000000000000
V Pri 12 Se	Action	Parameters Link Idx=0, Q=0	New Delete Duplicate Field Select Op Value 00 - Eth DA T 0x00000000000000000000000000000000000
Add	Delete	Refresh F	Flags: Stop Traffic Apply Flags Only Resume Traffic

Configurando as *Rules* para Adicionar Vlan 100 na ONU na porta USER1.

Clicar em Rules na ONU

- 1- Port: User-1
- 2- Modify Rule:

Action: Set VID; ADD Tag; Forward

- 3- VID: 100
- 4- Modify Clauses:

Field Select: 00 – Eth DA Op: T Value: 0 (zero) o software já converte de decimal para hexadecimal.

5 –Botão "Add"

	10	N UI	AC-C07E402213A8							- • ×
Ac	tive	Alarr	ns Ports Rate Ctrl	Edit Fields Rules	QC	fg. IGMP/VLAN R	STP	Low	Level Lpbk Test	Info
A	Advanced Rules Old Filtering Old Classification									
1	1 Port: User-1 ▼ Modify Clauses									
	M	odify	Rule			Field Select		Ор	Value	
2	Ac	ction:	Set VID; Add Tag; Forw	ard 💌	4	00 - Eth DA			0x000000000000000000000000000000000000	000
	Precedence: 12 🔽 🔽 Volatile									
3		VIC): 100							
			_			New	Dele	te	Duplicate	
	V	Pri	Action	Parameters		Field Select	Ор		Value	
	1	12	Set VID; Add Taq; Forwa	VID=100	00 ·	- Eth DA	Т	0x00	000000000000000000000000000000000000000	
		12	Set Destination; Forward	Link Idx=0, Q=0	00 -	- Eth DA	Т	0x00	000000000000000000000000000000000000000	
	5									
	[Add	Delete	Dafresh El		Erase All Rules	٨	oly E		
	<u> </u>	Auc		Reirean	iys.	Resume Traffic	~+	piyi	lags only	

Por padrão a porta USER2 da ONU na opção *Rules* esta configurada conforme abaixo:

ONU MAC-C07E402213A8	
Active Alarms Ports Rate Ctrl Edit Fields Rule	Q Cfg. IGMP/VLAN RSTP Low Level Lpbk Test Info
Advanced Rules Old Filtering Old Classification	
Port: User-2	Modify Clauses
Modify Rule	Field Select Op Value
Action: Set Destination; Forward	00 - Eth DA T 0x0000000000000000000000000000000000
Precedence: 12 💌 🗌 Volatile	
Link Idx: 1 Queue: 0	
	New Delete Duplicate
V Pri Action Parameter	s Field Select Op Value
12 Set Destination; Forwari Link Idx=1, Q=	0 00 - Eth DA T 0x00000000000000
	Erase All Rules

Configurando as *Rules* para Adicionar Vlan 200 na ONU na porta USER2.

Clicar em Rules na ONU

- 5- Port: User-2
- 6- ModifyRule:

Action: Set VID; ADD Tag; Forward

- 7- VID: 200
- 8- ModifyClauses:

Field Select: 00 – Eth DA Op: T

Value: 1 (Um) o software já converte de decimal para hexadecimal.

5 –Botão "Add"

ONU MAC-C07E402213A8									
ctive	e Aları	ms Ports Rate Ctrl	Edit Fields Rules	Q Cfg. IGMP/VLAN R	STP	Low Level Lpbk Test	Info		
dva	anced	Rules Old Filtering Ol	d Classification						
1 Port: User-2 Modify Clauses									
M	lodify	Rule		Field Select		Op Value			
A	ction:	Set VID; Add Tag; Forw	ard 👻	4 00 - Eth DA	-	Dx000000000000000000000000000000000000	001		
P	reced	ence: 12 Vola	tile						
	leccu		uic						
	VIC	. 200 .							
				New	Dele	ete Duplicate			
۷	Pri	Action	Parameters	Field Select	Ор	Value			
	12	Set VID; Add Tag; Forw	VID=200	00 - Eth DA	Т	0x0000000000000000001			
	12	Set Destination; Forward	Link Idx=1, Q=0	00 - Eth DA	Т	0x0000000000000000			
	5			_					
[["""	Ado	Delete	Refresh FI	Erase All Rules	Ar	only Flags Only			
i				Resume Traffic					
		V Pri 12 12 5	ONU MAC-C07E402213A8 ctive Alarms Ports Rate Ctrl idvanced Rules Old Filtering Old Port: User-2 Modify Rule Action: Set VID; Add Tag; Forw Precedence: 12 Volation VID: 200 V Pri Action 12 Set VID; Add Tag; Forw 12 Set VID; Add Tag; Forw 200 Action 12 Set VID; Add Tag; Forw 12 Set Destination; Forward 5 4dd Delete	ONU MAC-C07E402213A8 tive Alarms Ports Rate Ctrl Edit Fields Rules idvanced Rules Old Filtering Old Classification Port: User-2 Modify Rule Action: Set VID; Add Tag; Forward Precedence: 12 Volatile VID: 200 V Pri Action Parameters 12 Set VID; Add Tag; Forward [Link Idx=1, Q=0 5	ONU MAC-C07E402213A8 tive Alarms Ports Rate Ctrl Edit Fields Rules Q Cfg. IGMP/VLAN R Idvanced Rules Old Filtering Old Classification Modify Clauses Port: User-2 Modify Rule Field Select <	ONU MAC-C07E402213A8 tive Alarms Ports Rate Ctrl Edit Fields Rules Q Cfg. IGMP/VLAN RSTP idvanced Rules Old Filtering Old Classification Modify Clauses Port: User-2 Modify Clauses	ONU MAC-C07E402213A8 ttive Alarms Ports Rate Ctrl Edit Fields Rules Q Cfg. IGMP/VLAN RSTP Low Level Lpbk Test dvanced Rules Old Filtering Old Classification Port: User-2 Modify Clauses Modify Rule 4		