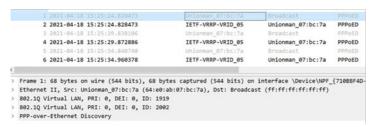
🗩 某局点 S125F-AF VPLS转发QINQ报文 丢失一层Vlan tag问题

VPLS QinQ **倪民** 2021-12-14 发表

组网及说明

S125F-AF---CR16K, 现场S125F-AF和CR16K之间建立了VPLS隧道, S125F-AF下收到QINQ报文向 上转发给CR16K。报文如下格式如下。



问题描述

现场在CR16K上抓包发现,收到包中只有内层的VLAN TAG 2002。

Vo.	Time	Source	Destination	Protocol	Len
	1 2021-04-18 15:27:56.737892	Unionman_07:bc:7a	Broadcast	PPPoED	
			Broadcast		
	3 2021-04-18 15:28:06.747770	Unionman_07:bc:7a	Broadcast	PPPoED	
	4 2021-04-18 15:28:43.418213	Unionman_07:bc:7a	Broadcast	PPPOED	
	5 2021-04-18 15:28:48.419823	Unionman_07:bc:7a	Broadcast	PPPoED	
	6 2021-04-18 15:28:53.425344	Unionman_07:bc:7a	Broadcast	PPPoED	
> Frame	2: 82 bytes on wire (656 bits), 82	bytes captured (656 bits) on	interface \Device\	NPF_{710BBF4D-B1	3D-47B
> Frame	2: 82 bytes on wire (656 bits), 82 net II, Src: NewH3CTe_c5:84:01 (78:				3D-47B
Frame Ethern		aa:82:c5:84:01), Dst: Hangzho	u_f1:d1:03 (58:66:b		3D-47B
> Frame > Ethern > MultiP	net II, Src: NewH3CTe_c5:84:01 (78:	aa:82:c5:84:01), Dst: Hangzho bel: 131734, Exp: 0, S: 1, TT	u_f1:d1:03 (58:66:b L: 255	a:f1:d1:03)	3D-478
> Frame > Ethern > MultiP > Ethern	net II, Src: NewH3CTe_c5:84:01 (78: Protocol Label Switching Header, La	aa:82:c5:84:01), Dst: Hangzho bel: 131734, Exp: 0, S: 1, TT e0:ab:07:bc:7a), Dst: Broadca	u_f1:d1:03 (58:66:b L: 255	a:f1:d1:03)	3D-47B

讨程分析

现场测试了单层vlan报文进入S125F-AF业务正常。最后把S125到CR16K的VPLS隧道删除,qinq业务也会恢复正常。

解决方法

将S125的工作模式修改为bridgee,并重启设备后,QINQ报文正常转发。和研发确认,S125F-AF使用VPLS时需要修改系统模式为bridgee,否则会出现异常。

system-working-mode bridgee