

知 某局点PC终端连接WTU430终结者下行口访问内网业务卡慢

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组网及说明

终结者分体WTU430有线口连接PC访问内网业务

问题描述

PC有线连接终结者分体WTU430下行口，通过有线访问内网业务卡慢，访问外网正常，ping内网服务器测试正常，相同VLAN情况下PC连接无线访问内网业务正常，相同VLAN情况下PC连接POE交换机访问内网业务正常。并且个别终端有问题，相同情况下其他PC正常

过程分析

替换测试发现与网络链路无关，尝试修改MTU和TCP MSS均无效果，尝试访问内网业务是抓包分析，发现很多TCP协商时有IP校验报错 “IP checksum offload”

Filter: ip.addr==10.150.150.253

No.	Time	Source	Destination	Protocol	Length	Destination	Info
117	8.90294000	10.150.150.253	10.150.150.1	TNS	200	10.150.150.1	Response, data (6), data
118	8.90303000	10.150.150.1	10.150.150.253	TNS	248	10.150.150.253	Response, data (6), data
119	8.90313000	10.150.150.1	10.150.150.253	TNS	118	10.150.150.253	Response, data (6), data
120	8.90324000	10.150.150.1	10.150.150.253	TNS	1033	10.150.150.253	Response, data (6), data
121	8.90334000	10.150.150.1	10.150.150.253	TNS	72	10.150.150.253	Response, data (6), data
122	8.90344000	10.150.150.1	10.150.150.253	TNS	76	10.150.150.253	Response, data (6), data
123	8.90354000	10.150.150.1	10.150.150.253	TNS	71	10.150.150.253	Response, data (6), data
124	8.90364000	10.150.150.1	10.150.150.253	TCP	54	10.150.150.253	ncube-lm >> ncube-lm [FIN, ACK] Seq=4380 Ack=3937 Win=65536 Len=0
125	8.90374000	10.150.150.1	10.150.150.253	TCP	60	10.150.150.253	ncube-lm >> ncube-lm [FIN, ACK] Seq=3937 Ack=4381 Win=20568 Len=0
126	8.90384000	10.150.150.1	10.150.150.253	TCP	60	10.150.150.253	ncube-lm >> ncube-lm [SYN, ACK] Seq=0 Ack=1 Win=14600 Len=0 MSS=14600 SACK_PERM=1
127	8.90394000	10.150.150.1	10.150.150.253	TCP	34	10.150.150.253	ncube-lm >> ncube-lm [ACK] Seq=1 Ack=1 Win=65536 Len=0
128	8.90404000	10.150.150.1	10.150.150.253	TNS	278	10.150.150.253	Response, data (6), data
129	8.90414000	10.150.150.1	10.150.150.253	TCP	60	10.150.150.253	ncube-lm >> ncube-lm [ACK] Seq=1 Ack=24 Win=15744 Len=0
130	8.90424000	10.150.150.1	10.150.150.253	TNS	62	10.150.150.253	Response, Resend (11)
131	8.90434000	10.150.150.1	10.150.150.253	TNS	86	10.150.150.253	Response, Accept (2), Accept
132	8.90444000	10.150.150.1	10.150.150.253	TNS	226	10.150.150.253	Response, data (6), data
133	8.90454000	10.150.150.1	10.150.150.253	TNS	181	10.150.150.253	Response, data (6), SNS
134	8.90464000	10.150.150.1	10.150.150.253	TNS	272	10.150.150.253	Response, data (6), data

.., ... = Don't Fragment: Set
..0, ... = More Fragments: Not set
Fragment offset: 0
Time to Live: 128
Protocol: TCP (6)

Bad IP checksum: 0x0000 [Incorrect, should be 0xcfb4 (maybe caused by 'IP checksum offload')]

Good: False

Bad: True

Expert Info (Error/Checksum): Bad checksum
Source: 10.150.150.1 (10.150.150.1)
Destination: 10.150.150.253 (10.150.150.253)

Transmission Control Protocol, Src Port: 64572 (64572), Dst Port: ncube-lm (1521), Seq: 4380, Ack: 3937, Len: 0

```
0000  50 5d 9c 05 e0 01 04 c6 01 01 82 9c 08 00 45 0c  |U...d...|
0010  20 23 66 75 40 00 05 06 00 00 0a 0a 0a 0a 0a 0a  |... ..|
0020  10 a3 3c 3c 05 f1 22 0c 0a 13 b1 d6 23 6a 50 11  |... ..#|
0030  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  |.....|
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解决方法

在网卡高级属性中修改IPv4校验和属性禁用解决



