

知 某局点无线1x认证客户端地址变化后不回复计费报文

802.1X

AAA

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组网及说明

客户AC型号WX3520h 版本R5433P03, 对接第三方服务器做了1x认证

问题描述

客户第三方服务器有安全合规检测，终端正常认证（合规检查通过）拿x.71地址，合规不通过拿y.7地址，x.71是vlan103，y.7是vlan112

当手动删除合规软件时，服务器踢终端下线重新拿地址后不再回复计费报文，导致安装好合规软件后无法拿正常的x.71地址

过程分析

查看抓包信息

No.	Time	Source	Destination	Protocol	Length	Info
16023	72.235678	253	103	RADIUS	549	Access-Request id=15
16025	72.244244	103	253	RADIUS	1153	Access-Challenge id=15
16045	72.284912	253	103	RADIUS	394	Access-Request id=16
16046	72.285998	103	253	RADIUS	331	Access-Challenge id=16
16047	72.318629	253	103	RADIUS	548	Access-Request id=17
16048	72.319909	103	253	RADIUS	234	Access-Challenge id=17
16049	72.343264	253	103	RADIUS	394	Access-Request id=18
16050	72.344162	103	253	RADIUS	228	Access-Challenge id=18
16470	74.222299	103	253	RADIUS	209	Disconnect-Request id=211
16475	74.238750	253	103	RADIUS	455	Accounting-Request id=86
16476	74.240730	253	103	RADIUS	126	Disconnect-ACK id=211
16480	74.247759	103	253	RADIUS	62	Accounting-Response id=86
16502	74.265163	103	253	RADIUS	209	Disconnect-Request id=212
16515	74.283629	253	103	RADIUS	132	Disconnect-NAK id=212
16527	74.305902	103	253	RADIUS	209	Disconnect-Request id=213
16533	74.321880	253	103	RADIUS	132	Disconnect-NAK id=213

16475	74.238750	253	103	RADIUS	455	Accounting-Request id=86
16476	74.240730	253	103	RADIUS	126	Disconnect-ACK id=211

```
> AVP: t=Calling-Station-Id(31) l=19 val=78-28-46-39-12-B4
> AVP: t=Called-Station-Id(30) l=33 val=98-F1-81-82-19-00:SenseTime-EAP
> AVP: t=Framed-IP-Address(8) l=6 val=71
> AVP: t=Acct-Session-Id(44) l=40 val=00000004202109161045260007e53008100383
> AVP: t=Acct-Multi-Session-Id(50) l=40 val=0000000420210916104526000367e9008000383
> AVP: t=Tunnel-Private-Group-Id(81) l=6 Tag=0x01 val=103
> AVP: t=Acct-Session-Time(46) l=6 val=203
> AVP: t=Acct-Input-Octets(42) l=6 val=356413
> AVP: t=Acct-Output-Octets(43) l=6 val=423551
> AVP: t=Acct-Input-Packets(47) l=6 val=1716
> AVP: t=Acct-Output-Packets(48) l=6 val=1549
> AVP: t=Acct-Input-Gigawords(52) l=6 val=0
> AVP: t=Acct-Output-Gigawords(53) l=6 val=0
> AVP: t=Acct-Terminate-Cause(49) l=6 val=Admin-Reset(6)
> AVP: t=Vendor-Specific(26) l=38 vnd=H3C(25506)
> AVP: t=Vendor-Specific(26) l=12 vnd=H3C(25506)
> AVP: t=Vendor-Specific(26) l=23 vnd=H3C(25506)
> AVP: t=Acct-Authentic(45) l=6 val=RADIUS(1)
> AVP: t=Acct-Status-Type(40) l=6 val=Stop(2)
```

第一次COA (使用授权更改) 和account-stop
终端地址是x.71

16964	75.504406	253	103	RADIUS	445	Access-Request id=26
16965	75.505155	103	253	RADIUS	212	Access-Challenge id=26
16966	75.525536	253	103	RADIUS	445	Access-Request id=27
16967	75.526256	103	253	RADIUS	231	Access-Accept id=27
17001	75.684535	253	103	RADIUS	407	Accounting-Request id=87
17006	75.692740	103	253	RADIUS	62	Accounting-Response id=87

```
Frame 16967: 231 bytes on wire (1848 bits), 231 bytes captured (1848 bits)
Ethernet II, Src: VMware_a8:2f:2f (00:50:56:a8:2f:2f), Dst: Cisco_ac:4e:cc (6c:5e:3b:ac:4e:cc)
Internet Protocol Version 4, Src: 10.151.6.103, Dst: 10.156.2.253
User Datagram Protocol, Src Port: 1812, Dst Port: 58817
RADIUS Protocol
Code: Access-Accept (2)
Packet identifier: 0x1b (27)
Length: 189
Authenticator: cd656a480ea27188768c0a3d3c9cb10e
[This is a response to a request in frame 16966]
[Time from request: 0.000720000 seconds]
Attribute Value Pairs
> AVP: t=Tunnel-Type(64) l=6 Tag=0x00 val=VLAN(13)
> AVP: t=Tunnel-Medium-Type(65) l=6 Tag=0x00 val=IEEE-802(6)
> AVP: t=Tunnel-Private-Group-Id(81) l=5 val=112
> AVP: t=Vendor-Specific(26) l=12 vnd=Unknown(65337)
> AVP: t=EAP-Message(79) l=6 Last Segment[1]
> AVP: t=Vendor-Specific(26) l=58 vnd=Microsoft(311)
> AVP: t=Vendor-Specific(26) l=58 vnd=Microsoft(311)
> AVP: t=Message-Authenticator(80) l=18 val=b21989d5a1155bceb6209547e675f39c
```

用户下线后, 重新认证, 获取vlan12

16967	75.526256	103	253	RADIUS	231	Access-Accept id=27
17001	75.684535	253	103	RADIUS	407	Accounting-Request id=87
17006	75.692740	103	253	RADIUS	62	Accounting-Response id=87

```
Packet identifier: 0x57 (87)
Length: 365
Authenticator: 045b84f3baaab53d2f3d28a849b7c14
[The response to this request is in frame 17006]
Attribute Value Pairs
> AVP: t=User-Name(1) l=12 val=huangjialu
> AVP: t=NAS-Identifier(32) l=31 val=ASCNHZTR-WLC-WX3520H-28FA-IRF
> AVP: t=NAS-Port(5) l=6 val=16777217
> AVP: t=NAS-Port-Type(61) l=6 val=Wireless-802.11(19)
> AVP: t=Framed-Protocol(7) l=6 val=PPP(1)
> AVP: t=NAS-Port-Id(87) l=18 val=010000000000001
> AVP: t=NAS-IP-Address(4) l=6 val=10.156.2.253
> AVP: t=Calling-Station-Id(31) l=19 val=78-28-46-39-12-B4
> AVP: t=Called-Station-Id(30) l=33 val=98-F1-81-82-19-00:SenseTime-EAP
> AVP: t=Framed-IP-Address(8) l=6 val=71
> AVP: t=Acct-Session-Id(44) l=40 val=00000004202109161048500007e56908100383
> AVP: t=Acct-Multi-Session-Id(50) l=40 val=000000042021091610485000367f8e08000383
> AVP: t=Tunnel-Private-Group-Id(81) l=6 Tag=0x01 val=112
> AVP: t=Vendor-Specific(26) l=38 vnd=H3C(25506)
> AVP: t=Vendor-Specific(26) l=12 vnd=H3C(25506)
> AVP: t=Vendor-Specific(26) l=23 vnd=H3C(25506)
> AVP: t=Acct-Authentic(45) l=6 val=RADIUS(1)
> AVP: t=Acct-Status-Type(40) l=6 val=Start(1)
> AVP: t=Acct-Delay-Time(41) l=6 val=0
```

此时终端地址已经是y.7, 但是account-start报文里的ip还是x.71

```
20309 91.145655 103 253 RADIUS 107 Accounting-Response id=16
21315 95.368020 253 103 RADIUS 362 Access-Request id=105
21316 95.376094 103 253 RADIUS 127 Access-Challenge id=105
21343 95.479919 253 103 RADIUS 547 Access-Request id=106
21344 95.487603 103 253 RADIUS 1153 Access-Challenge id=106
21365 95.627112 253 103 RADIUS 392 Access-Request id=107
# 在无线服务模板下, 开启IP地址变化客户端的重新计费功能
21798 98.489729 103 253 RADIUS 331 Access-Challenge id=107
system-view 209 Disconnect-Request id=217
21812 98.450098 253 103 RADIUS 132 Disconnect-NAK id=217
[Sysname#wlan service-template service1 209 Disconnect-Request id=218
132 Disconnect-NAK id=218]
[Sysname#wlan service-template service1]
[Sysname#wlan service-template service1]
[Sysname#wlan service-template service1]
> Ethernet II, Src: VMware_a8:2f:2f (00:50:56:a8:2f:2f), Dst: Cisco_ac:4e:cc (6c:5e:3b:ac:4e:cc)
> Internet Protocol Version 4, Src: 10.151.6.103, Dst: 10.156.2.253
> User Datagram Protocol, Src Port: 38495, Dst Port: 3799
√ RADIUS Protocol
  Code: Disconnect-Request (40)
  Packet identifier: 0xd9 (217)
  Length: 167
  Authenticator: 1d0cafaf439b1eea3116404167fc84b
  [The response to this request is in frame 21801]
  Attribute Value Pairs
  > AVP: t=User-Name(1) l=12 val=huangjialu
  > AVP: t=Framed-IP-Address(8) l=6 val=71
  > AVP: t=NAS-IP-Address(4) l=6 val=10.156.2.253
  > AVP: t=Acct-Session-Id(44) l=40 val=00000004202109161048500007e56908100383
  > AVP: t=Calling-Station-Id(31) l=19 val=78-28-46-39-12-B4
  > AVP: t=Called-Station-Id(30) l=33 val=98-F1-81-82-19-00:Senseime-EAP
  > AVP: t=NAS-Identifier(32) l=31 val=ASCNHZTR-WLC-WX3520H-28FA-IRF
```

所以第二次COA时, 请求的地址还是70.71, ac回复没有此会话

