

知 6520X-Elportal认证显示3001（not effective）不生效

Portal

宣江明

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组网及说明

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问题描述

用户通过控制下发配置，发现有台leaf设备6520X-EI下的新加终端无法通过Mac+portal认证上线，而在其它的相同型号的leaf设备下终端能正常认证上线。查看Mac认证信息发现下发Authentication的ACL3001显示的not effective状态。

```
[leaf-JiWu]dis mac-authentication connection us
[leaf-JiWu]dis mac-authentication connection user-mac
[leaf-JiWu]dis mac-authentication connection user-mac 7486-7a56-f1b0
Total connections: 1
Slot ID: 1
User MAC address: 7486-7a56-f1b8
Access interface: Bridge-Aggregation2
Username: 74867a56f1b8
User access state: Successful
Authentication domain: qdhk
IPv4 address: 192.168.230.33
Initial VLAN: 114
Authorization untagged VLAN: N/A
Authorization tagged VLAN: N/A
Authorization VSI: vsi3502
Authorization ACL number/name: 3001 (NOT effective)
Authorization user profile: N/A
Authorization CAR: N/A
Authorization URL: http://172.22.66.253:8080/byod?usermac=%m&userip=%c&userurl=%o&
original=%o
Termination action: Default
Session timeout period: 86400 sec
Online from: 2013/01/13 08:29:18
Online duration: 3h 25m 7s
```

过程分析

之后查看能正常上和不能正常上线的两台leaf ACL资源，异常leaf下终端无法通过认证上线，查看ACL资源，IPCL0使用99%，IPCL2和IPCL3都还有剩余，且和正常leaf设备使用情况差距不大（认为IPCL0占满之后会继续占用下一个IPCL1）：在设备日志中没有看到常见的ACL资源相关告警。最终确认该设备下发的packet-filter的规则有1186条，其和授权ACL也是下在IPCL0里面的（6520X-EI的ACL资源模式分配不是抢占模式而是固定分配的），导致资源不足。底层有资源不足告警，LINE:6614-TASK:portse cd-FUNC :Drv_Qacl_Acl_Rule_Index_Set:vtcam have no enough hardware resource uiUnit = 0 uiTca mId = 4

异常leaf:

```
=====display qos-acl resource=====
Interfaces: XGE1/0/1 to XGE1/0/48, FGE1/0/49
FGE1/0/50 (slot 1)
```

Type	Total	Reserved	Configured	Remaining	Usage
TTI ACL	3072	0	222	2850	7%
IPCL0 ACL	768	0	767	1	99%
IPCL1 ACL	256	0	3	253	1%
IPCL2 ACL	256	61	0	195	23%
IPCL Counter	4096	58	6	4032	1%
EPCL ACL	256	0	0	256	0%
EPCL Counter	1024	0	0	1024	0%
IPCL Meter	3072	2	0	3070	0%
EPCL Meter	4608	0	0	4608	0%

正常leaf:

```
=====display qos-acl resource=====
Interfaces: XGE1/0/1 to XGE1/0/48, FGE1/0/49
FGE1/0/50 (slot 1)
```

Type	Total	Reserved	Configured	Remaining	Usage
TTI ACL	3072	0	739	2333	24%
IPCL0 ACL	768	51	713	4	99%
IPCL1 ACL	256	0	0	256	0%
IPCL2 ACL	256	61	0	195	23%
IPCL Counter	4096	91	0	4005	2%
EPCL ACL	256	0	0	256	0%
EPCL Counter	1024	0	0	1024	0%
IPCL Meter	3072	2	0	3070	0%
EPCL Meter	4608	0	0	4608	0%

解决方法

减少packet filter下发条目数之后恢复正常

