

知 某局点S7510E voice vlan下发失败

Voice Vlan 陈阳 2022-03-30 发表

组网及说明

不涉及

问题描述

设备上有3块相同型号的SA系列单板，分别安装在4、9、10槽位，现场配置voice vlan enable时发现，相同的配置在4槽位接口能正常配置，在9槽位和10槽位接口配置则提示失败：

Fail to enable voice VLAN on this port.

过程分析

检查3块板卡的版本，确认是相同的版本。再对比两个接口配置，除voice vlan enable以外都相同，配置时的命令顺序也相同，排除了命令冲突或者限制的问题。然后通过display acl resource确认acl资源还有空余，所以怀疑底层资源下发失败。

通过查看debug qacl show acl-resc查看3块板卡的底层资源占用情况，查看slot 4时可以看到voice vlan已经成功下发到底层

Slot4:

```
=====debug qacl show acl-resc 4 0=====
```

```
-----  
Group 5,usedEntries 86,physlice 5,mode Single
```

```
=====
```

acl type	usedEntries[86]
----------	-----------------

```
=====
```

[26]Voice-Vlan	86
-----------------	----

```
=====
```

进一步查看slot 9的底层资源占用情况，可以看到physlice 0-15都被占用完了，导致没有多余的physlice可以分配给voice vlan，所以voice vlan下发失败

Slot9:

```
=====debug qacl show acl-resc 9 0=====
```

```
-----Qacl Group UsedResc Info-----
```

Acl Hw Resource: IFP

```
-----
```

Group 0,usedEntries 35,physlice 0-1 ,mode Double
--

```
=====
```

acl type	usedEntries[35]
----------	-----------------

```
=====
```

[22]RX Low	6
-------------	---

[62]Zero-Mac-Deny	1
--------------------	---

[66]L2-Miss-Operation	22
------------------------	----

[117]MPLS Vpn Middle	6
----------------------	---

```
=====
```

```
-----
```

Group 2,usedEntries 1,physlice 2,mode Single
--

```
=====
```

acl type	usedEntries[1]
----------	----------------

```
=====
```

[27]PortBind Default	1
-----------------------	---

```
=====
```

```
-----
```

Group 3,usedEntries 128,physlice 3,mode Single
--

```
=====
```

acl type	usedEntries[128]
----------	------------------

```
=====
```

[28]PortBind Bind	128
--------------------	-----

```
=====
```

```
-----
```

Group 4,usedEntries 30,physlice 4-5 ,mode Double
--

```
=====
```

acl type	usedEntries[30]
----------	-----------------

```
=====
```

[98]PktFilter IPV4/V6 on VRF	30
-------------------------------	----

```
=====
```

```
-----
```

Group 6,usedEntries 128,physlice 6-7 ,mode Double

```
=====
```

acl type	usedEntries[128]
----------	------------------

```
=====
```

```
[98 ]PktFilter IPV4/V6 on VRF    128
```

```
Group 8,usedEntries 128,physlice 8-9 ,mode Double
```

```
acl type          usedEntries[128]
```

解决方法
针对资源不足的情况，通常的做法都是删除多余的ACL。将剩余的ACL尽量合并，同时将ACL尽可能部署在物理接口下

```
[98 ]PktFilter IPV4/V6 on VRF    128
```

```
Group 10,usedEntries 128,physlice 10-11 ,mode Double
```

```
acl type          usedEntries[128]
```

```
[98 ]PktFilter IPV4/V6 on VRF    128
```

```
Group 12,usedEntries 128,physlice 12-13 ,mode Double
```

```
acl type          usedEntries[128]
```

```
[98 ]PktFilter IPV4/V6 on VRF    128
```

```
Group 14,usedEntries 48,physlice 14-15 ,mode Double
```

```
acl type          usedEntries[48]
```

```
[8 ]RX IPv4 High      15
```

```
[9 ]RX IPv4 Middle High  5
```

```
[10 ]RX IPv4 Middle    27
```

```
[15 ]RX IPv6 Middle     1
```

