

知 某局点S7500E 新增ONU注册会发导致其他ONU离线经验案例

EPON-OLT

单畅

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告警信息

在注册4/0/19：2 口的onu的时候，4/0/19上其他的onu会跟着一起离线，然后在重新注册上来。注册记录 and 日志中都有相关up/down记录

问题描述

4/0/19: 2下面ONU本来是注册上线的状态

```
[GAJK-/b10S-XHQ-XZJ-probe]dis onu interface olt 4/0/19
[GAJK-7610S-XHQ-XZJ-probe]dis onu interface olt 4/0/19
      MAC LLID Dist(M)      Port      Model/Version      Sft/Epm      State      Aging
8465-6953-7824      3      10281      Onu4/0/19:1      ET354/B0      119/      Up      N/A
8465-6953-7770      4      10324      Onu4/0/19:2      ET354/B0      119/      Up      N/A
8465-6953-6cae      2      10200      Onu4/0/19:3      ET354/B0      119/      Up      N/A
8465-6953-77d8      1      10336      Onu4/0/19:4      ET354/B0      119/      up      N/A
8465-6953-790a      N/A      N/A      N/A      N/A      N/A      silent      276

--- 5 entries found ---
```

后面注册其他接口ONU上线过程中，4/0/19:2口ONUoffline状态，进行重新注册。

```
[GAJK-/b10S-XHQ-XZJ]qu1
<GAJK-7610S-XHQ-XZJ>display onu interface olt 4/0/19
      MAC LLID Dist(M)      Port      Model/Version      Sft/Epm      State      Aging
8465-6953-7824      3      10280      Onu4/0/19:1      ET354/B0      120/      Up      N/A
8465-6953-7770      4      10198      Onu4/0/19:3      ET354/B0      120/      Up      N/A
8465-6953-6cae      2      10198      Onu4/0/19:3      ET354/B0      120/      Up      N/A
8465-6953-77d8      1      10334      Onu4/0/19:4      ET354/B0      120/      up      N/A
8465-6953-7770      N/A      N/A      Onu4/0/19:2      N/A      N/A      Offline      N/A
8465-6953-790a      N/A      N/A      N/A      N/A      N/A      Silent      239

--- 5 entries found ---
```

```
<GAJK-7610S-XHQ-XZJ>display onu interface olt 4/0/19
      MAC LLID Dist(M)      Port      Model/Version      Sft/Epm      State      Aging
8465-6953-7824      N/A      N/A      Onu4/0/19:1      N/A      N/A      Offline      N/A
8465-6953-7770      N/A      N/A      Onu4/0/19:2      N/A      N/A      Offline      N/A
8465-6953-6cae      N/A      N/A      Onu4/0/19:3      N/A      N/A      Offline      N/A
8465-6953-77d8      N/A      N/A      Onu4/0/19:4      N/A      N/A      Offline      N/A
8465-6953-790a      N/A      N/A      N/A      N/A      N/A      Silent      249

--- 5 entries found ---
```

```
%07171959Feb 15 12:12:50:845 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:4 is up.
%07171970Feb 15 12:12:52:030 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:3 link status is up.
%07171980Feb 15 12:12:52:031 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:3 is up.
%07172040Feb 15 12:12:55:979 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:1 link status is up.
%07172050Feb 15 12:12:55:980 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:1 is up.
%07172460Feb 15 12:13:00:465 2023 GAJK-7610S-XHQ-XZJ SHEL/0/SHELL_CMD: Limerxv0-IPAddr=172.25.254.4-user=ltc; Command is interface Onu4/0/19:2
%07172680Feb 15 12:13:27:152 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:4 link status is down.
%07172690Feb 15 12:13:27:156 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:4 is down.
%07172700Feb 15 12:13:27:249 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:3 link status is down.
%07172710Feb 15 12:13:27:255 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:3 is down.
%07172720Feb 15 12:13:28:343 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:1 link status is down.
%07172730Feb 15 12:13:28:346 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:1 is down.
%07172790Feb 15 12:13:44:646 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:2 link status is up.
%07172940Feb 15 12:13:44:647 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:2 is up.
%07173060Feb 15 12:13:53:076 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:4 link status is up.
%07173070Feb 15 12:13:53:077 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:4 is up.
%07173090Feb 15 12:13:54:263 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:3 link status is up.
%07173100Feb 15 12:13:54:264 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:3 is up.
%07173110Feb 15 12:13:55:284 2023 GAJK-7610S-XHQ-XZJ IFNET/3/PHY_UPDOWN: Onu4/0/19:1 link status is up.
%07173120Feb 15 12:13:55:287 2023 GAJK-7610S-XHQ-XZJ IFNET/5/LINK_UPDOWN: Line protocol on the interface Onu4/0/19:1 is up;
```

过程分析

从onu的updown时间来看，onu 1,3,4都是在12点12分50几秒up，且版本都是120版本，ftth下配置了升级119版本的命令，所以会执行升级过程，所以跟onu2上线不上线或者什么时间上线没有关系。Onu从注册上线启动升级到onu重启差不多2分钟30s左右，也是满足正常升级情况。目前看跟onu2的注册上线没有关系。

```
<GAJK-7610S-XHQ-XZJ>display epon onu-event interface Onu4/0/19:1
```

Date	Time	ONU Event	ONU Status
2023/02/15	12:12:56	Registration	Up
2023/02/15	12:15:28	Deregistration	Down
2023/02/15	12:15:55	Registration	Up

```
<GAJK-7610S-XHQ-XZJ>display epon onu-event interface Onu4/0/19:2
```

Date	Time	ONU Event	ONU Status
2023/02/15	12:15:44	Registration	Up

```
<GAJK-7610S-XHQ-XZJ>display epon onu-event interface Onu4/0/19:3
```

Date	Time	ONU Event	ONU Status
2023/02/15	12:12:52	Registration	Up
2023/02/15	12:15:27	Deregistration	Down
2023/02/15	12:15:54	Registration	Up

```
<GAJK-7610S-XHQ-XZJ>display epon onu-event interface Onu4/0/19:4
```

Date	Time	ONU Event	ONU Status
2023/02/15	12:12:51	Registration	Up
2023/02/15	12:15:27	Deregistration	Down
2023/02/15	12:15:53	Registration	Up

```
<GAJK-7610S-XHQ-XZJ>
```

之前ET354上线的版本是120:

```
<GAJK-7610S-XHQ-XZJ>display onu interface Olt 4/0/19
```

MAC	LLID	Dist(M)	Port	Model/Version	Sft/Epm	State	Aging
8465-6953-7824	3	10280	Onu4/0/19:1	ET354/B0	120/	Up	N/A
8465-6953-6cae	2	10198	Onu4/0/19:3	ET354/B0	120/	Up	N/A
8465-6953-77d8	1	10334	Onu4/0/19:4	ET354/B0	120/	Up	N/A

onu 4/0/19:2上线时间较晚，由于ftth下配置了升级119版本的命令，其他onu版本升级变成了119:

```
<GAJK-7610S-XHQ-XZJ>display onu interface Olt 4/0/19
```

MAC	LLID	Dist(M)	Port	Model/Version	Sft/Epm	State	Aging
8465-6953-7824	3	10281	Onu4/0/19:1	ET354/B0	119/	Up	N/A
8465-6953-7770	4	10336	Onu4/0/19:2	ET354/B0	120/	Up	N/A
8465-6953-6cae	2	10200	Onu4/0/19:3	ET354/B0	119/	Up	N/A
8465-6953-77d8	1	10336	Onu4/0/19:4	ET354/B0	119/	Up	N/A

所以目前看是在onu4/0/19:2上线的过程中，其他onu在升级

在ftth视图下查到有升级到命令:

```
ftth
```

```
update onu type ET354 filename flash:/et354119.app
```

olt上也保存了ET354119的版本文件:

```
=====dir /all /all-filestystems=====
```

Directory of flash:

0 -rw-	3605128	Aug 06 2020 11:14:40	ET254GS119.app
1 -rw-	3605128	Aug 06 2020 11:14:34	ET354119.app

解决方法

OLT4/0/19下的ET354 ONU的版本都是120版本，所以onu4/0/19:1、onu4/0/19:3和onu4/0/19:4 这几个ONU上线后会自动升到119版本。

onu4/0/19:2上线比较慢，还未升级119版本，其他几个onu已完成升级正在重启，造成了4/0/19:2在上线的过程中，其他几个onu下线的假象。

