

Gen2.5 终端 - 错误 #2714

新旧两个批次的cpe，5g模组usb映射的端口数量不一样，导致打开串口通信时失败

2025-01-16 14:39 - 游起君

状态:	已关闭	开始日期:	2025-01-16
优先级:	普通	计划完成日期:	
指派给:	游起君	% 完成:	0%
类别:		预期时间:	0.00 小时
目标版本:		耗时:	0.00 小时

描述

新旧两个批次的cpe，5g模组usb映射的端口数量不一样，导致打开串口通信时失败
原来旧的设备：
root@cpe:~# ls l/dev/ttyUSB*
erw-rw— 1 root dialout 188, 0 Jan 1 1970 /dev/ttyUSB0
crw-rw---- 1 root dialout 188, 1 Jan 16 06:38 /dev/ttyUSB1
crw-rw---- 1 root dialout 188, 2 Jan 1 1970 /dev/ttyUSB2
crw-rw---- 1 root dialout 188, 3 Jan 1 1970 /dev/ttyUSB3
crw-rw---- 1 root dialout 188, 4 Jan 1 1970 /dev/ttyUSB4
crw-rw---- 1 root dialout 188, 5 Jan 1 1970 /dev/ttyUSB5
crw-rw---- 1 root dialout 188, 6 Jan 1 1970 /dev/ttyUSB6
crw-rw---- 1 root dialout 188, 7 Jan 1 1970 /dev/ttyUSB7
crw-rw---- 1 root dialout 188, 8 Jan 1 1970 /dev/ttyUSB8

新的设备：
root@cpe:~# ls l/dev/ttyUSB*
erw-rw— 1 root dialout 188, 0 Jan 1 1970 /dev/ttyUSB0
crw-rw---- 1 root dialout 188, 1 Jan 16 06:38 /dev/ttyUSB1
crw-rw---- 1 root dialout 188, 2 Jan 1 1970 /dev/ttyUSB2
crw-rw---- 1 root dialout 188, 3 Jan 1 1970 /dev/ttyUSB3
crw-rw---- 1 root dialout 188, 4 Jan 1 1970 /dev/ttyUSB4
crw-rw---- 1 root dialout 188, 5 Jan 1 1970 /dev/ttyUSB5
crw-rw---- 1 root dialout 188, 6 Jan 1 1970 /dev/ttyUSB6
crw-rw---- 1 root dialout 188, 7 Jan 1 1970 /dev/ttyUSB7
crw-rw---- 1 root dialout 188, 8 Jan 1 1970 /dev/ttyUSB8
crw-rw---- 1 root dialout 188, 8 Jan 1 1970 /dev/ttyUSB9

历史记录

#1 - 2025-01-16 16:20 - 游起君

```
root@cpe:~# cat /etc/udev/rules.d/99-usb-serial.rules
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.1.auto-usb-0:1:2.2", SYMLINK+="5g1"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.1.auto-usb-0:1:2.3", SYMLINK+="5g2"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.1.auto-usb-0:1:2.4", SYMLINK+="5g3"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.1.auto-usb-0:1:2.5", SYMLINK+="5g4"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.1.auto-usb-0:1:2.6", SYMLINK+="5g5"

*SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.0.auto-usb-0:1:1.2", SYMLINK+="mesh1"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.0.auto-usb-0:1:1.3", SYMLINK+="mesh2"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.0.auto-usb-0:1:1.4", SYMLINK+="mesh3"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.0.auto-usb-0:1:1.5", SYMLINK+="mesh4"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-xhci-hcd.0.auto-usb-0:1:1.6", SYMLINK+="mesh5"

SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd880000.usb-usb-0:1:1.2", SYMLINK+="mesh1"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd880000.usb-usb-0:1:1.3", SYMLINK+="mesh2"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd880000.usb-usb-0:1:1.4", SYMLINK+="mesh3"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd880000.usb-usb-0:1:1.5", SYMLINK+="mesh4"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd880000.usb-usb-0:1:1.6", SYMLINK+="mesh5"

SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd800000.usb-usb-0:1:1.2", SYMLINK+="mesh1"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd800000.usb-usb-0:1:1.3", SYMLINK+="mesh2"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd800000.usb-usb-0:1:1.4", SYMLINK+="mesh3"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd800000.usb-usb-0:1:1.5", SYMLINK+="mesh4"
SUBSYSTEM=="tty", ENV{ID_PATH}=="platform-fd800000.usb-usb-0:1:1.6", SYMLINK+="mesh5"
```

3568 cpe三个usb接口，一个usb3.0.两个usb2.0, mesh模组插在不同的usb，对应的ID_PATH不一样

```
root@cpe:~# ls -l /dev/5g*
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/5g1 -> ttyUSB5
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/5g2 -> ttyUSB6
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/5g3 -> ttyUSB7
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/5g4 -> ttyUSB8
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/5g5 -> ttyUSB9
root@cpe:~# ls -l /dev/mesh*
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/mesh1 -> ttyUSB0
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/mesh2 -> ttyUSB1
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/mesh3 -> ttyUSB2
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/mesh4 -> ttyUSB3
lrwxrwxrwx 1 root root 7 Jan 1 1970 /dev/mesh5 -> ttyUSB4
```

#2 - 2025-01-18 17:48 - 游起君

- 状态从 *新建* 变更为 *已解决*

解决方案：

如上添加/etc/udev/rules.d/99-usb-serial.rules，将usb path绑定到固定设备名

#3 - 2025-02-10 14:54 - 高峰

- 状态从 *已解决* 变更为 *已关闭*