

How to disable X710 LAN LED after key-in “ifconfig down”

Applicable model list	NMC-4005/NMC-1001/NMC-1011 and X710/XL710 10Gb network card.
Model name version	N/A
NVM Version	NVM 6.01

Description:

By default setting, the X710 network Link/speed LED always keep turn on when user key-in ifconfig ethX down to disable X710 LAN port function.

For example: using Linux ifconfig command to set NMC-1011 (8 port 10Gb NMC module, chipset: X710) port 1 as down.

```
# ifconfig b17p0 down
# ethtool b17p0 | grep -i "Link detected"
    Link detected: no
# ethtool -i b17p0
driver: i40e
version: 2.4.10
firmware-version: 6.01 0x80003493 0.0.0
expansion-rom-version:
bus-info: 0000:17:00.0
supports-statistics: yes
supports-test: yes
supports-eeprom-access: yes
supports-register-dump: yes
supports-priv-flags: yes
```

And NMC-1011 port1 Link/Speed LED always keeps at turn on



Root cause:

The phenomenon seems Intel Driver Limitation, when user needs to turn off X710/XL710 LED function after key-in "ifconfig ethX down", Please look following readme link and refer readme command to set link-down-on-close Private Flag as on

<https://downloadmirror.intel.com/24411/eng/readme.txt>

Setting the link-down-on-close Private Flag

When the link-down-on-close private flag is set to "on", the port's link will go down when the interface is brought down using the ifconfig ethX down command.

Use ethtool to view and set link-down-on-close, as follows:

```
ethtool --show-priv-flags ethX
ethtool --set-priv-flags ethX link-down-on-close [on|off]
```

Setting Method:

When user needs to key-in following command to set priv-flags function, please set setting port as up first.

```
# ifconfig b17p0 up
```

Following example is using NMC-1011 port1 to demo priv-flags setting function.

1. Key-in intel suggestion command to get priv-flags setting , the NMC-1011 port1 default setting of link-down-on-close is off

```
# ethtool --show-priv-flags b17p0
Private flags for b17p0:
MFP                : off
LinkPolling        : off
flow-director-atr  : on
veb-stats          : off
hw-atr-eviction    : off
link-down-on-close : off
disable-source-pruning : off
disable-fw-lldp    : off
vf-true-promisc-support: off
```

2. Key-in intel suggestion command to set "link-down-on-close" of NMC-1011 port1 as on

```
# ethtool --set-priv-flags b17p0 link-down-on-close on
```

Using Linux ifconfig command to set NMC-1011 (8 port 10Gb NMC module, chipset: X710) port 1 as down.

```
# ifconfig b17p0 down
[ 1818.731818] i40e 0000:17:00.0 b17p0: NIC Link is Down
[ 1818.751794] i40e 0000:6b:00.0 b6bp0: NIC Link is Down
```

NMC-1011 port1 Link/Speed LED will turn off after key-in command



3. The priv-flags setting will return to default after reboot or power-off system, suggesting customer makes a script to set priv-flags function.

