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## 3 The network driver can not be loaded after the kernel's update

1. In case your network driver can not be loaded after the kernel's update, you can try to resolve the issue by yourself:

```
ls /lib/modules/`uname -r`/extra
```

If kernel modules pf\_ring.ko and igb.ko (or ixgbe.ko for 10G cards) are not present in this directory, please copy them from the similar directory of the previous kernel version:

```
find /lib/modules -name pf_ring.ko
cd path_found
cp pf_ring.ko /lib/modules/`uname -r`/extra
cp igb.ko /lib/modules/`uname -r`/extra # or ixgbe
```

and execute these instructions:

```
depmod -a
modprobe pf_ring
modprobe igb # or modprobe ixgbe
```

2. If your network card supports bypass functionality: you need to recover the bypass driver as well.

To find the driver:

```
find /lib/modules -name bpctl_mod\*
```

Copy it to extra:

```
cp bpctl_mod.ko /lib/modules/`uname -r`/extra
depmod -a
```

To verify operation:

```
bpctl_start
bpctl_util all get_bypass
```

Please contact tech support if these steps do not help.