openWRT mit LTE

Router: tl-wr1043nd
LTE-Stick: Vodafone 5005

- openwrt installieren
- opkg update
- Weitere Pakete installieren:

```
opkg install libpthread kmod-mii kmod-usb-net kmod-usb-wdm kmod-usb-net-qmi-wwan librt libusb-1.0 usb-modeswitch uqmi
```

- reboot
- konfigure QMI
  -
```
root@OpenWrt:~# ls -l /dev/cdc-wdm0
crw-r--r--    1 root     root      180, 176 Oct  1 12:03 /dev/cdc-wdm0
```
  - Sollte der Stick nicht vorhanden sein:

```
usbmode -l
usbmode -s
```

  -
```
root@OpenWrt:~# uqmi -d /dev/cdc-wdm0 --get-data-status
"disconnected"
root@OpenWrt:~# uqmi -d /dev/cdc-wdm0 --get-signal-info
{
        "type": "lte",
        "rssi": -61,
        "rsrq": -6,
        "rsrp": -88,
        "snr": 290
}
```

  -
```
root@OpenWrt:~# uqmi -d /dev/cdc-wdm0 --start-network internet --autoconnect
38750672
root@OpenWrt:~# uqmi -d /dev/cdc-wdm0 --get-data-status
"connected"
```

  - in `/etc/config/network`

```
config interface 'wwan'
        option ifname 'wwan0'
        option proto 'dhcp'
```

  - Firewall-Regel; Network → Firewall; WAN-Interface → Edit; WWAN anhaken

Quellen:

1. http://nucblog.net/2014/10/turn-your-old-wireless-router-into-an-lte-router-with-openwrt/

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