openWRT mit LTE

Router: tl-wr1043nd
LTE-Stick: Vodafone K5005

- openwrt installieren
- Sourcen updaten:

```
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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