

OLSR for Android

The trick is to use the wpa-supplication settings file to force the driver to go to ad-hoc mode. By the default the tiwlan cmd line utility does not understand ad-hoc mode.

1. turn on Wi-Fi and start the [adb shell](#)
2. go to wpa_cli command shell:
`su -c "/system/bin/wpa_cli -p /data/misc/wifi/"`
3. scan_results shows you the existing networks.
4. add_network add a new network. Shows a number. Here the number is "2"
5. set_network 2 mode 1
`set_network 2 ssid "olsr.freifunk.net"`
`set_network 2 bssid 02:ca:ff:ee:ba:be`
`set_network 2 frequency 2457`
`set_network 2 key_mgmt NONE`
`enable_network 2`
6. ap_scan 2
7. select_network 2
8. if this did not work, then try again: ap_scan 2
9. This is now what you get:

```
su -c "/system/bin/wpa_cli -p /data/misc/wifi/"
wpa_cli v0.5.10
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```

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Selected interface 'eth0'

Interactive mode

```
>
<2>CTRL-EVENT-SCAN-RESULTS Ready
scan_results
bssid / frequency / signal level / flags / ssid
00:16:38:e6:38:31 2412 -49 [WPA2-PSK-TKIP+CCMP] Sven-Ola
00:16:38:e6:38:31 2412 -50 [WPA2-PSK-TKIP+CCMP] Sven-Ola
02:ca:ff:ee:ba:be 2457 -40 [IBSS] olsr.freifunk.net
>
<2>CTRL-EVENT-SCAN-RESULTS Ready
add_network
2
>
<2>CTRL-EVENT-SCAN-RESULTS Ready
set_network 2 mode 1
OK
> set_network 2 ssid "olsr.freifunk.net"
OK
> set_network 2 bssid 02:ca:ff:ee:ba:be
OK
```

```

> set_network 2 frequency 2457
OK
> set_network 2 key_mgmt NONE
OK
> enable_network 2
OK
> ap_scan 2
<2>CTRL-EVENT-SCAN-RESULTS Ready
OK
> select_network 2
OK
<2>CTRL-EVENT-STATE-CHANGE id=1 state=0
>
<2>CTRL-EVENT-DISCONNECTED - Disconnect event - remove keys
<2>CTRL-EVENT-STATE-CHANGE id=-1 state=0
<2>CTRL-EVENT-STATE-CHANGE id=-1 state=2
<2>Trying to associate with SSID 'olsr.freifunk.net'
<2>CTRL-EVENT-STATE-CHANGE id=-1 state=3
<2>CTRL-EVENT-STATE-CHANGE id=2 state=4
<2>Associated with 02:ca:ff:ee:ba:be
<2>CTRL-EVENT-STATE-CHANGE id=2 state=7
<2>CTRL-EVENT-CONNECTED - Connection to 02:ca:ff:ee:ba:be completed (reauth)
[id=2 id_str=]
<2>CTRL-EVENT-SCAN-RESULTS Ready
<2>CTRL-EVENT-STATE-CHANGE id=2 state=8
<2>CTRL-EVENT-DISCONNECTED - Disconnect event - remove keys
<2>CTRL-EVENT-STATE-CHANGE id=-1 state=8
<2>CTRL-EVENT-STATE-CHANGE id=-1 state=2
<2>CTRL-EVENT-SCAN-RESULTS Ready
<2>CTRL-EVENT-SCAN-RESULTS Ready

```

Installing Olsr

1. The latest release is 0.6.0. Fetch the latest release from <http://www.olsr.org/?q=download>.
2. Unpack, compile and install the source code:

```

# tar jxvf olsrd-x.y.z
# cd olsrd-x.y.z
# make build_all
# make install_all

```

3. The **olsrd** gets installed to `/usr/bin/`
4. Follow the instructions at the end of the installation.

Starting olsr

From the Terminal or adb shell: `olsrd -f /data/local/etc/olsrd.conf -d 1`. You should see some routes in your kernel routing table if you are connected to an ad-hoc network which has other olsr nodes.

Credits: thanks to Sven-Ola Tücke for finding all this out!