

**MEDIATEK**

*everyday genius*

# Linux SoftAP WiFi Package Release Note

Version: 1.1  
Release date: 2022-1-17

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## Version History

Version	Date	Author	Description
1.0	2022-1-3	Micheal Su	MT7986 v7.6.2.0 MP SDK release
1.1	2022-1-17	Micheal Su	<ol style="list-style-type: none"> <li>1. ATF 20220114 release</li> <li>2. Uboot 20220114 release</li> <li>3. MT7986 v7.6.2.1 SDK release</li> </ol>

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## 1 MT7986 Linux SoftAP driver release note

### 1.1 [v7.6.2.0 SDK @2021/12/30]

1. ATF release,
  - 1) Support SPI-NOR/SPI-NAND/eMMC.
  - 2) Raise SPI-NAND speed to 52MHz
  - 3) MT7986 add 512M DDR4 support.
  - 4) BL2/FIP compression support
2. Uboot release,
  - 1) Support SPI-NOR/SPI-NAND/eMMC.
  - 2) Enable PWM
  - 3) Refactor loadaddr to 0x46000000
3. WiFi package,
  - 1) Support WiFi 11AX iPAiLNA 2G 4x4 and 5G 4x4 4ss AX6000
  - 2) Support WiFi 11AX ePAeLNA 2G 4x4 and 5G 4x4 4ss AX6000
  - 3) Support 20/40MHz bandwidth in 2.4GHz , and 20/40/80/160MHz bandwidth in 5GHz dual-band dual concurrent (DBDC)
  - 4) WiFi hw offload(WARP)
  - 5) WiFi Cert 4/5/6
  - 6) WiFi AX Feature
    - MU : 4 + 4
      - i. 2G -> 4MU
      - ii. 5G -> 4MU
    - OFDMA : 8 + 16
      - i. 2G -> 8 user (2RU ~ 8RU)
      - ii. 5G -> 16 user (2RU ~ 16RU)
    - TWT
    - BSS color
    - SR
  - 7) Easy Mesh R1/R2/R3
  - 8) PMF
  - 9) WPS
  - 10) WMMPS
  - 11) MBO
  - 12) WPA2/WPA3 R1/R2/R3
  - 13) 11K/V/R
  - 14) Fast Path/Smart QoS

Git revision:

- Openwrt

```
commit 4dddb7ca3669e93d4da2b1ca43b8bc22bd007e48 (HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Hauke Mehrtens <hauke@hauke-m.de>
Date: Sun Dec 26 23:38:52 2021 +0100
```

tcpdump: libpcap: Remove http://www.us.tcpdump.org mirror

The http://www.us.tcpdump.org mirror will go offline soon, only use the normal download URL.

Reported-by: Denis Ovsienko <denis@ovsienko.info>  
Signed-off-by: Hauke Mehrtens <hauke@hauke-m.de>  
(cherry picked from commit 18bdfc803bef00fad03f90b73b6e65c3c79cb397)  
Signed-off-by: Josef Schlehofer <pepe.schlehofer@gmail.com>  
[rebased for OpenWrt 21.02 branch]

Feed revision backup (feeds.conf.default-21.02):

```
src-git packages https://git.openwrt.org/feed/packages.git^ab94e07
src-git luci https://git.openwrt.org/project/luci.git^0818d83
src-git routing https://git.openwrt.org/feed/routing.git^a85b7c7
src-git telephony https://git.openwrt.org/feed/telephony.git^922009f
src-git mtk_openwrt_feed https://git01.mediatek.com/openwrt/feeds/mtk-openwrt-feeds^759668b
```

- packages Feed

```
commit ab94e0709a9c796d34d723ddba44380f7b3d8698 (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Josef Schlehofer <pepe.schlehofer@gmail.com>
Date: Wed Dec 29 18:35:09 2021 +0100
```

Merge pull request #17447 from jefferyto/golang-1.17.5-openwrt-21.02

[openwrt-21.02] golang: Update to 1.17.5, add patch

- luci Feed

```
commit 0818d835cacd9fa75b8685aabe6378ac09b95145 (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Stan Grishin <stangri@melmac.ca>
Date: Tue Dec 28 14:44:34 2021 -0800
```

Merge pull request #5620 from stangri/openwrt-21.02

[21.02] luci-app-https-dns-proxy: add AhaDNS and minor fixes

- routing Feed

```
commit a85b7c7ea865e0e11ffaa2f7b08ed3e52624f07c (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Rob White <rob@blue-wave.net>
Date: Sat Dec 18 20:15:27 2021 +0000
```

opennids: Release v9.5.1 (for 21.02)

Maintainer: Rob White rob@blue-wave.net  
Compile tested: arm\_cortex-a7\_neon-vfpv4, mipsel\_24kc  
Run tested: arm\_cortex-a7\_neon-vfpv4, mipsel\_24kc, gl-inet b1300, gl-inet mt300n-v2, Snapshot, 21.02.1, 19.07.8

- telephony Feed

```
commit 922009f1b203ff66d88d953717ef15acf6f9d2c9 (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Jiri Slachta <jiri@slachta.eu>
Date:   Wed Dec 8 06:58:06 2021 +0100

Merge pull request #716 from micmac1/restund-cve-21.02

[21.02] restund: fix CVE-2021-21382
```

- MTK Feed

```
commit 759668bb0ee157c83d3f2fa531101624f92eb310 (grafted, HEAD -> master, origin/master, origin/HEAD)
Author: developer <developer@mediatek.com>
Date:   Tue Dec 28 17:34:37 2021 +0800

[][mtd: nand: spi: Add new spi nand device support]

[Description]
Add F50L1G41LB and GD5F1GQ5UExxG snand support,
F50L1G41LB use same manufacture ID with Gigadevice

[Release-log]
N/A

Change-Id: I6d81ac4e344f12f676fc95db8e8b5234b80b6a6a
Reviewed-on: https://gerrit.mediatek.inc/c/openwrt/feeds/mtk_openwrt_feeds/+/5446372
```

## 1.2 [v7.6.2.1 SDK @2022/1/14]

- ATF 20220114 release,
  - Update DRAM timing delay
- Uboot 20220114 release,
  - Support eMMC + Secure boot
- Fixed issues,
  - MU-MIMO UL/DL fine tune
  - MU-MIMO function on MBSS mode
  - OFMDA DL/UL fine tune
  - TGax 5.60.1
  - MAP bug fix
  - MAP R3 cert 4.17.3
  - Enable SER

Git revision:

- Openwrt

```
commit 43d105ec2aa2ee35c9687eab965ac8006e6484ce (HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: David Bauer <mail@david-bauer.net>
Date:   Thu Jan 13 10:06:20 2022 +0100

kernel: bump 5.4 to 5.4.171

Compile-tested: ath79-generic ipq40xx-generic
Run-tested: ath79-generic

Signed-off-by: David Bauer <mail@david-bauer.net>
```

Feed revision backup (feeds.conf.default-21.02):

```
src-git packages https://git.openwrt.org/feed/packages.git^d3e6dc5
src-git luci https://git.openwrt.org/project/luci.git^dd9390c
src-git routing https://git.openwrt.org/feed/routing.git^61cd00c
src-git telephony https://git.openwrt.org/feed/telephony.git^ec88aa7
src-git mtk_openwrt_feed https://git01.mediatek.com/openwrt/feeds/mtk-openwrt-feeds^94da18a
```

- packages Feed

```
commit d3e6dc51ee7ba77ec0188871d8abf93a513d8143 (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Hirokazu MORIKAWA <morikw2@gmail.com>
Date: Tue Dec 28 15:36:55 2021 +0900

mg: bump to 7.0

This is mg as it appears in OpenBSD 7.0.

Signed-off-by: Hirokazu MORIKAWA <morikw2@gmail.com>
```

- luci Feed

```
commit dd9390c81f438e629c699d0dc578b445ab3fdb17 (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Jo-Philipp Wich <jw@mein.io>
Date: Fri Jan 7 19:19:11 2022 +0100

luci-mod-network: fix reading back rpfilter configuration value

Fixes: #5635
Fixes: faad7464a8 ("luci-mod-network: add support for network.device sections")
Signed-off-by: Jo-Philipp Wich <jw@mein.io>
(cherry picked from commit 0ef82b3c581fca05521637421cfc4b516d9099a2)
```

- routing Feed

```
commit 61cd00cb8ebfa8657a2ee455c65ed87979e0d050 (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: Nick Hainke <vincent@systemli.org>
Date: Thu Jan 13 09:34:44 2022 +0100

naywatch: introduce kick-count

Check multiple rounds if neighbors are available before kicking. This
should reduce unneeded reboots.

Signed-off-by: Nick Hainke <vincent@systemli.org>
(cherry picked from commit 24285ce4fcd56aa806b8be9ac16cbfed0a81d2f8)
```

- telephony Feed

```
commit ec88aa7ab0954d38a343a5cc3458057bff9ebafe (grafted, HEAD -> openwrt-21.02, origin/openwrt-21.02)
Author: micmac1 <sebastian_ml@gmx.net>
Date: Tue Jan 4 14:28:08 2022 +0100

Merge pull request #727 from micmac1/dong-head-21

[21.02] asterisk-chan-dongle: update to the latest git HEAD
```

- MTK Feed

```
commit 94da18adb2683199c519dfedb9f2d71c0fd98b00 (grafted, HEAD -> master, origin/master, origin/HEAD)
Author: developer <developer@mediatek.com>
Date: Thu Jan 13 09:54:19 2022 +0800

    [][mtd: nand: spi: Fix build error]

[Description]
Fix build error

[Release-log]
N/A

Change-Id: I7b64faade226ff0a3d94cc9821d61a927b135205
Reviewed-on: https://gerrit.mediatek.inc/c/openwrt/feeds/mtk\_openwrt\_feeds/+5509059
```



## 2 MTK WLAN Daemon Release Version

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- 2.1 miniupnpd [v1.6]
- 2.2 ated\_ext [v2.0.2]
- 2.3 wappd [v3.0.0.1]
- 2.4 1905daemon [v3.0.0.1]
- 2.5 mapd/libmapd [v3.0.0.1]
- 2.6 802.1x [v1.0]
- 2.7 fwdd [v2.0]
- 2.8 mtfwd [v2.0]
- 2.9 mapfilter [v3.0.0.1]
- 2.10 wapp\_uapi\_includes [v3.0.0.1]
- 2.11 datconf [v1.0]
- 2.12 sigma\_daemon [v2.5.2]
- 2.13 sigma\_dut [v2.5.2]

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