① hostapd.conf は下記内容を設定（ご提供いただいた conf ファイル）

```
root@armadillo:~#
root@armadillo:~# cat hostapdtest.conf
hw_mode=a
channel=48
ssid=myap
wpa_passphrase=myap_pass
interface=wlan0
wpa_key_mgmt=WPA-PSK
wpa_pairwise=TKIP
rsn_pairwise=CCMP
driver=nl80211
country_code=JP
wpa=2
ieee80211n=1
```

② サービス起動後、以下情報を出力　※赤枠は電波の地域制限（らしい）

```
root@armadillo:~#
root@armadillo:~# hostapd hostapdtest.conf
Configuration file: hostapdtest.conf
wlan0: interface state UNINITIALIZED->COUNTRY_UPDATE
Channel 48 (primary) not allowed for AP mode, flags: 0x3 NO-IR
wlan0: IEEE 802.11 Configured channel (48) not found from the channel list of current mode (2) IEEE 802.11a
wlan0: IEEE 802.11 Hardware does not support configured channel
Could not select hw_mode and channel. (-3)
wlan0: interface state COUNTRY_UPDATE->DISABLED
wlan0: AP-DISABLED
wlan0: interface state DISABLED->DISABLED
wlan0: AP-DISABLED
wlan0: CTRL-EVENT-TERMINATING
hostapd_free_hapd_data: Interface wlan0 wasn't started
nl80211: deinit ifname=wlan0 disabled_11b_rates=0
root@armadillo:~#
```

③ 現在の状態を確認（iw list コマンドを実行）

無効チャンネルや no IR が表示されているチャンネルしか存在しない。

```
        Frequencies:
                * 5170 MHz [34] (disabled)
                * 5180 MHz [36] (30.0 dBm) (no IR)
                * 5190 MHz [38] (disabled)
                * 5200 MHz [40] (30.0 dBm) (no IR)
                * 5210 MHz [42] (disabled)
                * 5220 MHz [44] (30.0 dBm) (no IR)
                * 5230 MHz [46] (disabled)
                * 5240 MHz [48] (30.0 dBm) (no IR)
                * 5260 MHz [52] (30.0 dBm) (no IR, radar detection)
                * 5280 MHz [56] (30.0 dBm) (no IR, radar detection)
                * 5300 MHz [60] (30.0 dBm) (no IR, radar detection)
                * 5320 MHz [64] (30.0 dBm) (no IR, radar detection)
                * 5500 MHz [100] (30.0 dBm) (no IR, radar detection)
                * 5520 MHz [104] (30.0 dBm) (no IR, radar detection)
                * 5540 MHz [108] (30.0 dBm) (no IR, radar detection)
                * 5560 MHz [112] (30.0 dBm) (no IR, radar detection)
                * 5580 MHz [116] (30.0 dBm) (no IR, radar detection)
                * 5600 MHz [120] (30.0 dBm) (no IR, radar detection)
                * 5620 MHz [124] (30.0 dBm) (no IR, radar detection)
                * 5640 MHz [128] (30.0 dBm) (no IR, radar detection)
                * 5660 MHz [132] (30.0 dBm) (no IR, radar detection)
                * 5680 MHz [136] (30.0 dBm) (no IR, radar detection)
                * 5700 MHz [140] (30.0 dBm) (no IR, radar detection)
                * 5720 MHz [144] (30.0 dBm) (no IR, radar detection)
                * 5745 MHz [149] (30.0 dBm) (no IR)
                * 5765 MHz [153] (30.0 dBm) (no IR)
                * 5785 MHz [157] (30.0 dBm) (no IR)
                * 5805 MHz [161] (30.0 dBm) (no IR)
                * 5825 MHz [165] (30.0 dBm) (no IR)
```

④ 地域設定を「日本 (JP)」にセットするが、セット内容が反映されなかった（global のまま）

参考 URL：Hostapd no IR で 5GHz が使えないときの対処法(ドライバ改造)

```
root@armadillo:~# sudo iw reg set JP
root@armadillo:~#
root@armadillo:~# iw reg get
global
country 00: DFS-UNSET
        (2402 - 2472 @ 40), (6, 20), (N/A)
        (2457 - 2482 @ 20), (6, 20), (N/A), AUTO-BW, PASSIVE-SCAN
        (2474 - 2494 @ 20), (6, 20), (N/A), NO-OFDM, PASSIVE-SCAN
        (5170 - 5250 @ 80), (6, 20), (N/A), AUTO-BW, PASSIVE-SCAN
        (5250 - 5330 @ 80), (6, 20), (0 ms), DFS, AUTO-BW, PASSIVE-SCAN
        (5490 - 5730 @ 160), (6, 20), (0 ms), DFS, PASSIVE-SCAN
        (5735 - 5835 @ 80), (6, 20), (N/A), PASSIVE-SCAN
        (57240 - 63720 @ 2160), (N/A, 0), (N/A)

phy#0 (self-managed)
country 99: DFS-UNSET
        (2402 - 2482 @ 40), (6, 20), (N/A)
        (2474 - 2494 @ 20), (6, 20), (N/A)
        (5140 - 5360 @ 40), (6, 20), (N/A)
        (5460 - 5860 @ 40), (6, 20), (N/A)
```

以上