

図 4. AP の Wi-Fi の接続条件 (PC 側)

「自動的に接続」 オプションをチェックしない。



図 5. AP に Wi-Fi 接続前(1)、接続中(2)、接続後(3)のログ。

Wi-Fi 接続時 (初回のみ)、下記(2)のログを出力する。

また、(2)(3)は現行製品 (AEH-AR9462) 利用時には出力されなかったログ情報。

```

root@armadillo:~# systemctl -l status hostapd.service --no-pager
● hostapd.service - Advanced IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator
   Loaded: loaded (/lib/systemd/system/hostapd.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2022-12-12 10:21:09 JST; 22s ago
     Process: 2157 ExecStart=/usr/sbin/hostapd -B -P /run/hostapd.pid -B $DAEMON_OPTS ${DAEMON_CONF} (code=exited, status=0/SUCCESS)
    Main PID: 2244 (hostapd)
      Memory: 1.7M
    OGroup: /system.slice/hostapd.service
           └─2244 /usr/sbin/hostapd -B -P /run/hostapd.pid -B /etc/hostapd/hostapd.conf
Dec 12 10:21:08 armadillo systemd[1]: Starting Advanced IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator...
Dec 12 10:21:08 armadillo hostapd[2157]: Configuration file: /etc/hostapd/hostapd.conf
Dec 12 10:21:08 armadillo hostapd[2157]: Using interface wlan0 with hwaddr 00:0e:8e:a2:96:ca and ssid "ARMADILLO-X1_NEWWLANMODULE"
Dec 12 10:21:09 armadillo hostapd[2157]: wlan0: interface state UNINITIALIZED->ENABLED
Dec 12 10:21:09 armadillo hostapd[2157]: wlan0: AP-ENABLED
Dec 12 10:21:09 armadillo systemd[1]: Started Advanced IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator.
root@armadillo:~#
root@armadillo:~# [dhd] CFG80211-ERROR) wl_cfg80211_change_station : WLC_SCB_AUTHORIZE sta_flags_mask not set
NOHZ: local_softirq_pending 08
[dhd] CFG80211-ERROR) wl_cfg80211_get_key : Invalid also (0x44)
NOHZ: local_softirq_pending 08
NOHZ: local_softirq_pending 08
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NOHZ: local_softirq_pending 08
NOHZ: local_softirq_pending 08
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NOHZ: local_softirq_pending 08
nt_contrack: default automatic helper assignment has been turned off for security reasons and CI-based firewall rule not found. Use the iptables CT target to attach helpers instead.
root@armadillo:~#
root@armadillo:~# systemctl -l status hostapd.service --no-pager
● hostapd.service - Advanced IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator
   Loaded: loaded (/lib/systemd/system/hostapd.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2022-12-12 10:21:09 JST; 44s ago
     Process: 2157 ExecStart=/usr/sbin/hostapd -B -P /run/hostapd.pid -B $DAEMON_OPTS ${DAEMON_CONF} (code=exited, status=0/SUCCESS)
    Main PID: 2244 (hostapd)
      Memory: 1.8M
    OGroup: /system.slice/hostapd.service
           └─2244 /usr/sbin/hostapd -B -P /run/hostapd.pid -B /etc/hostapd/hostapd.conf
Dec 12 10:21:08 armadillo systemd[1]: Starting Advanced IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator...
Dec 12 10:21:08 armadillo hostapd[2157]: Configuration file: /etc/hostapd/hostapd.conf
Dec 12 10:21:08 armadillo hostapd[2157]: Using interface wlan0 with hwaddr 00:0e:8e:a2:96:ca and ssid "ARMADILLO-X1_NEWWLANMODULE"
Dec 12 10:21:09 armadillo hostapd[2157]: wlan0: interface state UNINITIALIZED->ENABLED
Dec 12 10:21:09 armadillo hostapd[2157]: wlan0: AP-ENABLED
Dec 12 10:21:09 armadillo systemd[1]: Started Advanced IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator.
Dec 12 10:21:41 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de IEEE 802.11: associated
Dec 12 10:21:41 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de RADIUS: starting accounting session CF69D44B526E9458
Dec 12 10:21:41 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de WPA: pairwise key handshake completed (RSN)
root@armadillo:~#

```

図 6. 二回目以降の Wi-Fi 接続は下記のようなログを出力する。

※上記図 5 (2) と同様

```

root@armadillo:~# [dhd] CFG80211-ERROR) wl_cfg80211_change_station : WLC_SCB_AUTHORIZE sta_flags_mask not set
[dhd] CFG80211-ERROR) wl_cfg80211_get_key : Invalid also (0x44)
root@armadillo:~#
root@armadillo:~#

```

図 7. hcitool scan コマンド実施→ PC 側 WiFi 状態 : 接続継続

([dhd] CFG80211-ERROR ログ (2行) が出る)

→その後 hcitool scan の 2~4 回目 : 切断される

2~4 回目の際、以下のログを出力するケースがあった (この時 PC 側は接続状態)

hostapd.service ログでは、同じ接続 session 番号が出力されている (一度内部的に切断されたのではないか)

```
root@armadillo:~# hcitool scan
Scanning ...
  AC:7A:4D:CE:26:93      S0000
  3C:F0:11:83:52:E2     TC0A1052
  80:45:DD:F7:24:74     DESKTOP-N115UA4
root@armadillo:~#
root@armadillo:~# [dhd] CFG80211-ERROR wlan0: wlcfg80211_change_station : WLC_SCB_AUTHORIZE sta_flags_mask not set
[dhd] CFG80211-ERROR wlan0: wlcfg80211_set_key : Invalid also (0x44)
root@armadillo:~#
root@armadillo:~# systemctl -l status hostapd.service --no-pager
● hostapd.service - Advanced IEEE 802.11 AP and IEEE 802.1X/WPA/WPA2/EAP Authenticator
   Loaded: loaded (/lib/systemd/system/hostapd.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2022-12-12 10:21:09 JST; 6min ago
     Process: 2157 ExecStart=/usr/sbin/hostapd -P /run/hostapd.pid -B $DAEMON_OPTS ${DAEMON_CONF} (code=exited, status=0/SUCCESS)
    Main PID: 2244 (hostapd)
      Memory: 1.8M
    CGroup: /system.slice/hostapd.service
            └─2244 /usr/sbin/hostapd -P /run/hostapd.pid -B /etc/hostapd/hostapd.conf

Dec 12 10:23:11 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de IEEE 802.11: disassociated
Dec 12 10:24:04 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de IEEE 802.11: associated
Dec 12 10:24:04 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de RADIUS: starting accounting session 91A605B69A3642D9
Dec 12 10:24:04 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de WPA: pairwise key handshake completed (RSN)
Dec 12 10:26:25 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de IEEE 802.11: associated
Dec 12 10:26:25 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de RADIUS: starting accounting session 91A605B69A3642D9
Dec 12 10:26:25 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de WPA: pairwise key handshake completed (RSN)
Dec 12 10:27:56 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de IEEE 802.11: associated
Dec 12 10:27:56 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de RADIUS: starting accounting session 91A605B69A3642D9
Dec 12 10:27:56 armadillo hostapd[2244]: wlan0: STA 80:45:dd:f7:24:de WPA: pairwise key handshake completed (RSN)
root@armadillo:~#
```

以上