

RSB3730 WIFI AP+STA 复现操作步骤

撰写	胡乐滨
审阅	
更新日期	2024-03-15



RECORD OF CHANGES

版本号	修订人	修订日期	修订内容	审核
1.0	胡乐滨	2024.03.15	初步内容撰写	



目录

1. 配置		2
1.1.	添加驱动固件	2
1.2.	编译驱动	2
1.3.	配置 AP	4
1.4.	配置 wpa_supplicant	4
1.5.	配置 dhcp	5
1.6.	配置 networkd	5
1.7.	重启生效	6
2. 测试		8
2.1.	AP 测试	8
2.2.	STA 测试	9
	2.2.1. 正常的 SSID 密码连接	9
	2.2.2. 错误的 SSID 密码连接	11



1.配置

1.1.添加驱动固件

(1) 解压 PCIE-WLAN-UART-BT-8997-LNX_6_1_55-IMX8-16.92.21.p84.4-16.92.21.p84.4-

MM6X16423.P6-GPL.zip 压缩包

(2)拷贝解压出来的文件夹中 FwImage 文件夹的三个文件到/lib/firmware/nxp

😜 pcie8997_wlan_v4.bin	2023/6/2 16:40	BIN 文件	429 KB
😳 pcieuart8997_combo_v4.bin	2023/6/2 16:40	BIN 文件	609 KB
😳 uartuart8997_bt_v4.bin	2023/6/2 16:40	BIN 文件	180 KB

1.2.编译驱动

(1) 解压 PCIE-WLAN-UART-BT-8997-LNX_6_1_55-IMX8-16.92.21.p84.4-16.92.21.p84.4-

MM6X16423.P6-GPL.zip 压缩包

(2)再次将解压出来的文件夹中的三个.tgz 进行解压

WIFI-LNX_6_1_55_RC1-IMX8MM6X17423.p6-app-src.tgz	2023/11/2 20:13	TGZ 文件	635 KB
WIFI-LNX_6_1_55_RC1-IMX8MM6X17423.p6-GPL-src.tgz	2023/11/2 20:13	TGZ 文件	756 KB
WIFI-LNX_6_1_55_RC1-IMX8MM6X17423.p6-mlan-src.tgz	2023/11/2 20:14	TGZ 文件	690 KB

(3)配置交叉编译器,指定内核目录。

vi Makefile

添加 KERNELDIR 变量



<pre># Alternatively # SPDX-License #</pre>	y, this software may be distributed under the terms of GPL v2. -Identifier: GPL-2.0		
KERNELDIR:=/.	./linux-im <mark>x</mark>		
CONFIG_COMPATDIA ifeq (\$(CONFIG_C COMPATDIR=/lib/n CC ?= endif	R=n COMPATDIR), y) modules/\$(KERNELVERSION_X86)/build/compat-wireless-3.2-rc1-1/include \$(CROSS_COMPILE)gcc -I\$(COMPATDIR)		
LD ? = BACKUP= YMD=	\$(CROSS_COMPILE)ld /root/backup `date +%Y%m%d%H%M`		
<pre>####################################</pre>			

(4)删除原文件系统中的对应驱动,防止冲突造成无法正常加载

rm -r /lib/modules/5.4.70/kernel/drivers/net/wireless/marvell

rm -r /lib/modules/5.4.70/kernel/drivers/net/wireless/nxp/*

(5)将编译出来的 mlan.ko 和 moal.ko 拷贝到设备中。

cp mlan.ko moal.ko /lib/modules/5.4.70/kernel/drivers/net/wireless/nxp

(6)更新内核模块依赖

depmod

(7)设置开机自启

vi /etc/modules-load.d/wifi.conf

添加如下内容,设置开机加载 mlan.ko 和 moal.ko 驱动

mlan

moal

(8)设置开机自启驱动参数

vi /etc/modprobe.d/wifi.conf

添加如下内容,加载 moal.ko 驱动时指定参数。

options moal mod_para=nxp/wifi_mod_para.conf



1.3.配置 AP

(1)修改/etc/hostapd.conf, 配置 hostapd 参数

interface=uap0

driver=n180211

ieee80211n=1

hw_mode=g

channel=6

wpa=2

 $\texttt{ssid=jelina_ap}$

wpa_passphrase=jelina123

wpa_key_mgmt=WPA-PSK

rsn_pairwise=CCMP TKIP

wpa_pairwise=TKIP CCMP

(2) 启动 hostapd

systemctl start hostapd

```
root@imx8mmrsb3730a2:~# systemctl start hostapd
[ 4130.247101] wlan: Starting AP
[ 4130.251915] CMD_RESP: cmd 0x121 error, result=0x2
[ 4130.256647] IOCTL failed: 00000000c1ef2090 id=0x200000, sub_id=0x200024 action=2, status_code=0x2
[ 4130.265527] Get multi-channel policy failed
[ 4130.270295] fw doesn't support 11ax
[ 4130.283634] wlan: AP started
[ 4130.289500] Set AC=3, txop=47 cwmin=3, cwmax=7 aifs=1
[ 4130.297199] Set AC=2, txop=94 cwmin=7, cwmax=15 aifs=1
[ 4130.304516] Set AC=0, txop=0 cwmin=15, cwmax=1023 aifs=7
]
```

1.4. 配置 wpa_supplicant

(1)设置开机自启

systemctl enable wpa_supplicant@mlan0.service

(2)添加配置文件

vi /etc/wpa_supplicant/wpa_supplicant-mlan0.conf

添加如下内容

 $\tt ctrl_interface=/var/run/wpa_supplicant$



RSB3730 WIFI AP+STA 复现操作步骤

Enabling an Intelligent Planet

(3)启动服务

systemctl start wpa_supplicant@mlan0.service

1.5.配置 dhcp

(1)使用 Yocto 编译并安装 dnsmasq

bitbake dnsmasq

将 rpm 包拷贝至设备中进行安装。

rpm -ivh dnsmasq-2.80-r0.aarch64.rpm

(2)修改配置文件

vi /etc/dnsmasq.conf

添加如下内容。

port=1983

interface=uap0
dhcp-range=192.168.8.20,192.168.8.254,255.255.255.0,24h
dhcp-option=option:router,192.168.8.1
dhcp-option=option:dns-server,8.8.8.8

(3)启动服务

systemctl stop dnsmasq systemctl start dnsmasq

1.6. 配置 networkd

(1)添加 uap0 配置文件

vi /lib/systemd/network/80-uap0.network

添加如下内容。

[Match]

Name=uap0

ADVANTECH

Enabling an Intelligent Planet

[Network] Address=192.168.8.1/24 Gateway=192.168.8.1 DNS=8.8.8.8

(2)添加 mlan0 配置文件

vi /lib/systemd/network/80-mlan0.network

添加如下内容。

[Match]

Name=m1an0

[Network]

DHCP=yes

(3)启动服务

 $systemctl \ stop \ systemd-networkd$

systemctl start systemd-networkd

1.7.重启生效

(1)按照上述步骤完成所有配置之后,重启系统

reboot

(2)开机之后查看对应的网卡, uap0 以及 mlan0

ifconfig

mlan0	Link encap:Ethernet HWaddr 00:e9:3a:0d:d2:11 UP BROADCAST MULTICAST MTU:1500 Metric:1 RX packets:0 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
uap0	Link encap:Ethernet HWaddr 02:e9:3a:0d:d3:11 inet addr:192.168.8.1 Bcast:192.168.8.255 Mask:255.255.255.0 inet6 addr: fe80::e9:3aff:fe0d:d311/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:0 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:36 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

AD\ANTECH

Enabling an Intelligent Planet

(3)查看 hostapd 及 wpa_supplicant 服务是否启动正常

<pre>root@imx8mmrsb3730a2:~# systemctl status hostapd * hostapd.service - Hostapd IEEE 802.11 AP, IEEE 802.1X/WPA/WPA2/EAP/RADIUS Authenticator Loaded: loaded (/lib/systemd/system/hostapd.service; enabled; vendor preset: disabled) Active: active (running) since Mon 2024-03-18 03:16:25 UTC; 2min 20s ago Process: 956 ExecStart=/usr/sbin/hostapd /etc/hostapd.conf -P /run/hostapd.pid -B (code=exited, status=0/SUCCE Main PID: 964 (hostapd) Tasks: 1</pre>
Memory: 2.4M CGroup: /system.slice/hostapd.service `-964 /usr/sbin/hostapd /etc/hostapd.conf -P /run/hostapd.pid -B
<pre>Mar 18 03:16:25 imx8mmrsb3730a2 systemd[1]: Starting Hostapd IEEE 802.11 AP, IEEE 802.1X/WPA/WPA2/EAP/RADIUS Aut Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: Configuration file: /etc/hostapd.conf Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: rfkill: Cannot open RFKILL control device Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: Using interface uap0 with hwaddr 02:e9:3a:0d:d3:11 and ssid "jelin Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: random: Only 18/20 bytes of strong random data available Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: random: Not enough entropy pool available for secure operations Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: wPA: Not enough entropy in random pool for secure operations Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: uap0: interface state UNINITIALIZED→ENABLED Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: uap0: AP-ENABLED Mar 18 03:16:25 imx8mmrsb3730a2 hostapd[956]: uap0: AP-ENABLED Mar 18 03:16:25 imx8mmrsb3730a2 systemd[1]: Started Hostapd IEEE 802.11 AP, IEEE 802.1X/WPA/WPA2/EAP/RADIUS Auth root@imx8mmrsb3730a2: #ps -ef grep hostapd root 964 1 0 03:16 ? 00:00:00 /usr/sbin/hostapd /etc/hostapd.conf -P /run/hostapd.pid -B root 1025 1001_0 03:18 ttymxc1 00:00:00 grep hostapd</pre>
<pre>root@imx8mmrsb3730a2:~# systemctl status wpa_supplicant@mlan0 * wpa_supplicant@mlan0.service - WPA supplicant daemon (interface-specific version) Loaded: loaded (/lib/systemd/system/wpa_supplicant@.service; enabled; vendor preset: disabled) Active: active (running) since Mon 2024-03-18 03:16:24 UTC; 2min 39s ago Main PID: 923 (wpa_supplicant) Tasks: 1 Memory: 6.2M CGroup: /system.slice/system-wpa_supplicant.slice/wpa_supplicant@mlan0.service `-923 /usr/sbin/wpa_supplicant -c/etc/wpa_supplicant/wpa_supplicant_mlan0.conf -imlan0</pre>
Mar 18 03:16:24 imx8mmrsb3730a2 systemd[1]: Started WPA supplicant daemon (interface-specific version). Mar 18 03:16:24 imx8mmrsb3730a2 wpa_supplicant[923]: Successfully initialized wpa_supplicant Mar 18 03:16:24 imx8mmrsb3730a2 wpa_supplicant[923]: rfkill: Cannot open RFKILL control device root@imx8mrsb3730a2:~# ps -ef grep wpa_supplicant root 923 1 0 03:16 ? 00:00:00 /usr/sbin/wpa_supplicant -c/etc/wpa_supplicant/wpa_supplicant-mlan0.conf -imlan0 root 954 1 0 03:16 ? 00:00:00 /usr/sbin/wpa_supplicant -u root 1029 1001_0 03:19 ttymxc1 00:00:00 grep wpa_supplicant



RSB3730 WIFI AP+STA 复现操作步骤

2.测试

2.1.AP 测试

查看 AP 是否正常开启,能否正常连接。



使用对应的密码成功连接。

属性

SSID:	jelina_ap
协议:	Wi-Fi 4 (802.11n)
安全类型:	WPA2-个人
网络频带:	2.4 GHz
网络通道:	6
链接速度(接收/传输):	130/130 (Mbps)
本地链接 IPv6 地址:	fe80::f52d:2395:9123:c020%6
IPv4 地址:	192.168.8.47
IPv4 DNS 服务器:	8.8.8.8
制造商:	Intel Corporation
描述:	Intel(R) Wi-Fi 6 AX200 160MHz
驱动程序版本:	21.10.2.2

调试串口打印输出如下内容。

AD\ANTECH

ro	ot@imx8mmrsb3730a2	:∼# [253.934569] uap0:
Γ	253.934577] wlan:	HostMlme Auth received from 38:XX:XX:a8:13
[253.942854] wlan:	HostMlme uap0 send Auth
[253.954836] uap0:	
[253.954843] wlan:	HostMlme MICRO_AP_STA_ASSOC 38:XX:XX:a8:13
[253.962879] uap0:	
I	253.962883] wlan:	HostMlme MICRO_AP_STA_ASSOC 38:XX:XX:a8:13
[253.971508] wlan:	UAP/GO add peer station, address =38:XX:XX:a8:13
[253.978728] wlan:	HostMlme uap0 send assoc/reassoc resp
[253.984275] wlan:	deauth station 38:XX:XX:a8:13
[253.989683] wlan:	UAP/GO add peer station, address =38:XX:XX:a8:13
[253.996632] wlan:	HostMlme uap0 send assoc/reassoc resp
Γ	254.003207] uap0:	
Γ	254.003213] wlan:	Send EAPOL pkt to 38:XX:XX:XX:a8:13
Γ	254.010784] wlan:	hostmlme notify deauth station 38:XX:XX:a8:13
[254.017037] uap0:	
Γ	254.017040] wlan:	EVENT: MICRO_AP_STA_DEAUTH reason=0x4003 38:XX:XX:a8:13
[254.026463] wlan:	deauth station 38:XX:XX:a8:13
[254.031522] CMD_R	ESP: cmd 0xb5 error, result=0x1
[254.036186] IOCTL	<pre>failed: 00000000ec52c917 id=0x20000, sub_id=0x2000d action=1, status_code=0x1</pre>
[254.045059] wlan:	deauth station 38:XX:XX:xX:a8:13 failed
Ī	254.521627] wlan:	hostmlme notify deauth station 38:XX:XX:a8:13
Ē	254.527870] uap0:	
Ī	254.527874] wlan:	EVENT: MICRO_AP_STA_DEAUTH reason=0x4003 38:XX:XX:a8:13
Ē	254.529629] uap0:	
Ľ	254.529632] wlan:	HostMlme Auth received from 38:XX:XX:a8:13
Ĩ	254.545433] wlan:	HostMlme uap0 send Auth
Ľ	254.552531] uap0:	
Ļ	254.552536] wlan:	HostMime MICRO_AP_SIA_ASSOC_38:XX:XX:A8:13
Ļ	254.561883] wlan:	UAP/G0 add peer station, address =38:XX:XX:a8:13
Ļ	254.569093] wlan:	HostMilme uapo send assoc/reassoc resp
Ļ.	254.577406 uap0:	
Ļ.	254.577413] wlan:	Send EAPOL pkt to 38:XX:XX:A8:13
Ļ	254.597202 uap0:	
L	254.597208] wlan:	Send EAPUL pkt to 38:XX:XX:A8:13

2.2.STA 测试

2.2.1. 正常的 SSID 密码连接

(1)新增一个连接配置

wpa_cli -i mlan0 add_network

这里返回值 0 是 network id,下面所有配置命令中的 0 均是 network id,此命令执行结果

不同时,下述所有命令均需修改为对应的值。

```
root@imx8mmrsb3730a2:~# wpa_cli -i mlan0 add_network
```

(2)配置要连接的 ssid 和密码

wpa_cli -i mlan0 set_network 0 key_mgmt 'WPA-PSK'

wpa cli -i mlan0 set network 0 ssid '""

wpa cli -i mlan0 set network 0 psk '""

(3) 启用配置

0

© 1983-2024 研华科技(中国)有限公司版权所有



wpa_cli -i mlan0 enable_network 0

(4)选择当前使用的网络配置

wpa_cli -i mlan0 select_network 0

wpa_supplicant 开始连接 ssid。

root@imx8mmrsb	3730a2:~# [1210.715188] wlan: SCAN COMPLETED: scanned AP count=38
[1210.724838]	wlan: HostMlme mlan0 send auth to bssid 70:XX:XX:d5:f0
[1210.756722]	mlan0:
[1210.756727]	wlan: HostMlme Auth received from 70:XX:XX:d5:f0
[1210.764800]	uap0:
[1210.764803]	wlan: HostMlme Auth received from 70:XX:XX:d5:f0
[1210.776755]	CMD_RESP: cmd 0x121 error, result=0x2
[1210.781492]	IOCTL failed: 000000008a46ae51 id=0x200000, sub_id=0x200024 action=2, status_code=0x3
[1210.790369]	Get multi-channel policy failed
[1211.723299]	CSA/ECSA: Switch to new channel 60 complete!
[1211.728655]	OLD BW = 1 NEW BW = 0
[1211.729158]	wlan: HostMlme mlan0 Connected to bssid 70:XX:XX:d5:f0 successfully
[1211.742006]	mlan0:
[1211.742011]	wlan: Send EAPOL pkt to 70:XX:XX:d5:f0
[1211.754749]	mlan0:
[1211.754755]	wlan: Send EAPOL pkt to 70:XX:XX:d5:f0
[1211.772256]	IPv6: ADDRCONF(NETDEV_CHANGE): mlan0: link becomes ready
[1211.779695]	woal_cfg80211_set_rekey_data return: gtk_rekey_offload is DISABLE
[1211.952800]	uap0:
[1211.952805]	wlan: Send EAPOL pkt to 38:XX:XX:a8:13
[1212.460606]	uap0:
[1212.460614]	wlan: Send EAPOL pkt to 38:XX:XX:a8:13
[1213.468018]	uap0:
[1213.468026]	wlan: Send EAPOL pkt to 38:XX:XX:a8:13
[1214.475652]	uap0:
[1214.475660]	wlan: Send EAPOL pkt to 38:XX:XX:a8:13
[1215.483496]	wlan: HostMlme uap0 send deauth/disassoc
[1215.490606]	
[1215.490612]	WLan: EVENI: MICRO_AP_SIA_DEAUTH reason=0x0_38:XX:XX:a8:13
	wlan: deauth station 38:XX:XX:AX:a8:13
	Wian: nostmime notity deauth station 38:XX:XX:AX:a8:13
	UDDU:
	WLan: EVENI: MICRO AP SIA DEAUTH reason=0x4003 38:XX:XX:A8:13
	UMD RESP: CMG WXD5 error, result=WX1
	IUCIL Matted: 0000000038292702 ta=0x20000, sub_ta=0x20000 action=1, status_code=0x1
	Wian: deauth station 38:XX:XX:A8:13 Failed
	Wian: dealth station 38:XX:XX:XX:48:13
	UND RESP: CHIQ WXDS error, result=0X1
[1215.049212] [1215.5591921	Julan double station 20:00000020034301 (d=0x20000, sub (d=0x20000 dctton=1, status_code=0x1
$\begin{bmatrix} 1215.550102 \end{bmatrix}$	with the death station 30.AA.AA.AA.AO.IS fatted
$\begin{bmatrix} 1213.910044 \end{bmatrix}$ $\begin{bmatrix} 1215 024802 \end{bmatrix}$	
[1215.924095] [1215.024095]	UDDO. JULANS EVENTS MICRO AD STA DEAUTH roscon-0x4003 38.YY.YY.YY.a8.13
[1213.924090]	

查看 mlan0 是否正确获取到对应的 ip。

mlan0 Link encap:Ethernet HWaddr 00:e9:3a:0d:d2:11 inet addr:192.168.210.103 Bcast:192.168.210.255 Mask:255.255.255.0 inet6 addr: fe80::2e9:3aff:fe0d:d211/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:5 errors:0 dropped:0 overruns:0 frame:0 TX packets:37 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:987 (987.0 B) TX bytes:5795 (5.6 KiB)

使用 ping 命令, 查看网络是否正常。

ping -I mlan0 192.168.210.92

ADVANTECH

Enabling an Intelligent Planet

root@imx8mmrsb3730a2:~# ping -I mlan0 192.168.210.92				
PING 192.168.210.92 (192.168.210.92) from 192.168	.210.103 mlan0: 56(84) bytes of data.			
64 bytes from 192.168.210.92: icmp seq=1 ttl=128	time=20.8 ms			
64 bytes from 192.168.210.92: icmp seq=2 ttl=128	time=45.8 ms			
64 bytes from 192.168.210.92: icmp_seq=3 ttl=128	time=50.8 ms			
64 bytes from 192.168.210.92: icmp_seq=4 ttl=128	time=67.1 ms			
64 bytes from 192.168.210.92: icmp_seq=5 ttl=128	time=6.46 ms			
64 bytes from 192.168.210.92: icmp_seq=6 ttl=128	time=63.9 ms			
64 bytes from 192.168.210.92: icmp_seq=7 ttl=128	time=41.5 ms			
64 bytes from 192.168.210.92: icmp_seq=8 ttl=128 t	time=34.1 ms			
64 bytes from 192.168.210.92: icmp_seq=9 ttl=128	time=49.2 ms			
64 bytes from 192.168.210.92: icmp_seq=10 ttl=128	time=10.3 ms			
64 bytes from 192.168.210.92: icmp_seq=11 ttl=128	time=6.38 ms			
64 bytes from 192.168.210.92: icmp_seq=12 ttl=128	time=16.0 ms			
64 bytes from 192.168.210.92: icmp_seq=13 ttl=128	time=22.9 ms			
64 bytes from 192.168.210.92: icmp_seq=14 ttl=128	time=5.81 ms			
64 bytes from 192.168.210.92: icmp_seq=15 ttl=128	time=35.4 ms			
64 bytes from 192.168.210.92: icmp_seq=16 ttl=128	time=6.17 ms			
64 bytes from 192.168.210.92: icmp_seq=17 ttl=128	time=63.0 ms			
64 bytes from 192.168.210.92: icmp_seq=18 ttl=128	time=258 ms			
64 bytes from 192.168.210.92: icmp_seq=19 ttl=128	time=4.28 ms			
64 bytes from 192.168.210.92: icmp_seq=20 ttl=128	time=30.4 ms			
64 bytes from 192.168.210.92: icmp_seq=21 ttl=128	time=7.65 ms			
64 bytes from 192.168.210.92: icmp_seq=22 ttl=128	time=7.38 ms			
64 bytes from 192.168.210.92: icmp_seq=23 ttl=128	time=15.4 ms			
64 bytes from 192.168.210.92: icmp_seq=24 ttl=128	time=24.5 ms			
64 bytes from 192.168.210.92: icmp_seq=25 ttl=128	time=37.0 ms			
64 bytes from 192.168.210.92: icmp_seq=26 ttl=128	time=71.2 ms			
64 bytes from 192.168.210.92: icmp_seq=27 ttl=128	time=27.6 ms			
64 bytes from 192.168.210.92: icmp_seq=28 ttl=128	time=16.7 ms			
64 bytes from 192.168.210.92: icmp seq=29 ttl=128	time=34.8 ms			

2.2.2. 错误的 SSID 密码连接

使用错误的 SSID 密码尝试连接,并确保主机已连接到 AP,并使用 ping 命令检查与 AP 的 连通状态。

(1)关闭原先的配置连接

wpa_cli -i mlan0 disable_network 0

(2)设置错误的密码

wpa_cli -i mlan0 set_network 0 psk '"errorPSK"'

(3)重新启用配置连接

wpa_cli -i mlan0 enable_network 0

(4)尝试重连几次后出现报错信息,此时主机的 AP 连接也被迫断开

AD\ANTECH

Enabling an Intelligent Planet

[599.488683	3] sp : ffff80001217bc10				
[599.491994	I] x29: ffff80001217bc10 x28: ffff000072478000				
[599.497303	3] x27: ffff8000116fafe8 x26: 0000000000000000				
E	599.502613	3] x25: ffff80001217bd28 x24: ffff00007274e000				
[599.507922	2] x23: ffff000072bb8108 x22: ffff00007660aa00				
[599.51323	L] x21: ffff00006e679014 x20: ffff000072b2c900				
[599.518540)] x19: ffff80001217bd28 x18: 0000000000000000				
[599.523848	3] x17: 000000000000000 x16: 000000000000000				
[599.529158	3] x15: 000000000000000 x14: 000000000000000				
[599.53446	7] x13: 000000000000000 x12: 000000000000001				
[599.539776	5] x11: 000000000000000 x10: 0000000000000				
[599.545085	5] x9 : ffff00007dbb8e50 x8 : ffff00006e67901c				
Ľ	599.550394	I] x7 : 000000000000000 x6 : ffff00006e67901c				
[599.555704	I] x5 : 0000000000000967 x4 : 000000000000985				
Ľ	599.561013	3] x3 : 000000000000000 x2 : 000000000000003				
Ľ	599.566322	2] x1 : ffff80001217bd28 x0 : 0000000000000000				
[599.57163	L] Call trace:				
Ľ	599.574076	6] nl80211 send chandef+0x150/0x160				
[599.578432	2] nl80211_ch_switch_notify.isra.0.constprop.0+0xe4/0x178				
[599.584696	5] cfg80211 ch switch notify+0x7c/0xb0				
[599.589336	5] woal_cfg80211_notify_channel+0xb8/0xf8 [moal]				
[599.594840)] woal_evt_work_queue+0x214/0x278 [moal]				
Ē	599.59971	7] process one_work+0x198/0x320				
[599.603724	I] worker thread+0x48/0x420				
[599.607385	5] kthread+0x138/0x158				
Ē	599.610612	2] ret_from_fork+0x10/0x1c				
[599.614184	↓][[end Trace 68f3a81f7b79c364]				
[600.92734	<pre>L] ASSOC RESP: Association Failed, status code = 1, error = 0xfffc, a id = 0xffff</pre>				
[600.93564	L] IOCTL failed: 00000000a5e51650 id=0x20000, sub_id=0x20001 action=1, status_code=0xfffc0001				
[600.94496	7] HostMlme mlan0: bss start Fails				
[600.949179	wlan: HostMlme mlan0 Failed to connect to bssid 70:XX:XX:d5:e0				
[601.95764	wlan: mlan0 START SCAN				
[602.290692	wlan: SCAN COMPLETED: scanned AP count=38				
[602.300152	wlan: HostMlme mlan0 send auth to bssid 70:XX:XX:dc:40				
[602.313020	5] mlan0:				
[602.313030)] wlan: HostMlme Auth received from 70:XX:XX:dc:40				
[602.321078	3] uap0:				
[602.32108	L] wlan: HostMlme Auth received from 70:XX:XX:AX:dc:40				
[602.329566	5] CMD_RESP: cmd 0x121 error, result=0x2				
[602.334346	5] IOCTL failed: 0000000056cd1271 id=0x200000, sub_id=0x200024 action=2, status_code=0x3				
[602.34323	7] Get multi-channel policy failed				
Ľ	603.323764	CSA/ECSA: Switch to new channel 1 complete!				
Γ	603.329030	0] OLD BW = 3 NEW BW = 3				
[603.329124	+][cut here]				
[603.337066	WARNING: CPU: 3 PID: 935 at net/wireless/nl80211.c:3157 nl80211_send_chandef+0x150/0x160				

÷.	5 100 100 0 1	ぶ高倉こ		
木	₫ 192.168.8.1	- 脫凹룐:	<u> 主卫=32</u>	ជហុមរៀ=8ms IIL=64
来	∃ 192.168.8.1	的回复:	字节=32	时[8]=13ms TTL=64
来	自 192.168.8.1	的回复:	字节=32	时间=117ms TTL=64
来	∃ 192.168.8.1	的回复:	字节=32	时间=139ms TTL=64
来	╡ 192.168.8.1	的回复:	字节=32	时间=21ms TTL=64
来	╡ 192.168.8.1	的回复:	字节=32	时间=9ms TTL=64
来	╡ 192.168.8.1	的回复:	字节=32	时间=10ms TTL=64
来	自 192.168.8.1	的回复:	字节=32	时间=10ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=9ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=11ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=3ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间<1ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=5ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=2ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=3ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=2ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=9ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=3ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=22ms TTL=64
来	∄ 192.168.8.1	的回复:	字节=32	时间=110ms TTL=64
请	求超时。			
请习	求超时。			
f	股故障。			