

7.0-BETA3 ndis/wpa_supplicant/dhclient problem

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2007-11/msg01627.html>

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 - *Date:* Thu, 29 Nov 2007 13:45:42 +0800
-

Hello list,

I'm having problem with Broadcom card (card=0x1371103c chip=0x431214e4 rev=0x02) with ndis. It was working (associating and receiving dhcp offer) prior system upgrade from 6.3-PRERELEASE to 7.0-BETA3. After upgraded to 7.0-BETA3, it managed to associate with AP but could no longer able to obtain dhcp offer. Dhclient failed to obtain dhcp lease and fell back to sleep all the time. Manully assigning IP addr/netmask/route did not help either. Without using wpa_supplicant (ifconfig_ndis0="DHCP ssid MYWIFI wepmode mixed 0xAAAAAABBBBBBCCCCCDDDDDD00"), it failed to obtain dhcp lease too. Here are some of the sanitized details.

```
uname -a
#####
FreeBSD coeus.m0m0.org 7.0-BETA3 FreeBSD 7.0-BETA3 #0: Wed Nov 28
02:05:22 MYT 2007
chflags@xxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/COEUS i386
GENERIC kernel configure with pf stuff added in
device pf
device pfsync
device pflog
device carp
options ALTQ
options ALTQ_CBQ
options ALTQ_RED
options ALTQ_RIO
options ALTQ_HFSC
options ALTQ_PRI
```

```
dmesg
#####
wlan: mac acl policy registered
no match for IoGetDeviceObjectPointer
ndis0: <Broadcom 802.11a/b/g WLAN> mem 0xb3000000-0xb3003fff irq 19 at
device 0.0 on pci1
ndis0: [ITHREAD]
ndis0: NDIS API version: 5.1
ndis0: using obsoleted if_watchdog interface
```

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```
ndis0: Ethernet address: 00:00:00:00:00:22
Setting ESSID to ""
Setting ESSID to ""
Setting ESSID to ""
Setting ESSID to ""
ndis0: bssid_list failed
ndis0: link state changed to UP
```

```
loader.conf
#####
if_ndis_load="YES"
bcmwl5_sys_load="YES"
wlan_wep_load="YES"
wlan_ccmp_load="YES"
wlan_tkip_load="YES"
wlan_acl_load="YES"
wlan_scan_sta_load="YES"
```

```
rc.conf
#####
ifconfig_ndis0="DHCP WPA ssid MYWIFI"
```

```
wpa_supplicant.conf
#####
network={
ssid="MYWIFI"
scan_ssid=1
key_mgmt=NONE
wep_tx_keyidx=0
wep_key0=AAAAAABBBBBBCCCCCDDDDDD00
}
```

```
ifconfig -a
#####
ndis0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> metric 0 mtu 1500
ether 00:00:00:00:00:22
inet 0.0.0.0 netmask 0xff000000 broadcast 255.255.255.255
media: IEEE 802.11 Wireless Ethernet autoselect
status: associated
ssid "" channel 1 (2412 Mhz 11g)
authmode OPEN privacy ON deftxkey 1 wepkey 1:104-bit bmiss 7
scanvalid 60 protmode CTS roaming MANUAL bintval 0
```

```
pciconf -lv
#####
ndis0@pci0:1:0:0: class=0x028000 card=0x1371103c chip=0x431214e4
rev=0x02 hdr=0x00
vendor = 'Broadcom Corporation'
device = 'BCM4310 broadcom wireless 1490 (dell)'
class = network
```

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wpa_cli interactive mode output

#####

wpa_cli v0.5.8

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Selected interface 'ndis0'

Interactive mode

status

bssid=00:00:00:00:00:11

ssid=MYWIFI

id=0

pairwise_cipher=WEP-104

group_cipher=WEP-104

key_mgmt=NONE

wpa_state=COMPLETED

ip_address=0.0.0.0

scan_results

bssid / frequency / signal level / flags / ssid

00:00:00:00:00:11 2437 -46 [WEP] MYWIFI

wpa_supplicant debug mode output

#####

wpa_supplicant -i ndis0 -c /etc/wpa_supplicant.conf -D ndis -d

Initializing interface 'ndis0' conf '/etc/wpa_supplicant.conf' driver

'ndis' ctrl_interface 'N/A' bridge 'N/A'

Configuration file '/etc/wpa_supplicant.conf' -> '/root/wpa_supplicant.conf'

Reading configuration file '/etc/wpa_supplicant.conf'

Priority group 0

id=0 ssid='MYWIFI'

Initializing interface (2) 'ndis0'

EAPOL: SUPP_PAE entering state DISCONNECTED

EAPOL: KEY_RX entering state NO_KEY_RECEIVE

EAPOL: SUPP_BE entering state INITIALIZE

EAP: EAP entering state DISABLED

EAPOL: External notification - portEnabled=0

EAPOL: External notification - portValid=0

NDIS: Packet.dll version: FreeBSD WinPcap compatibility shim v1.0

NDIS: 1 adapter names found

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```
NDIS: 1 adapter descriptions found
NDIS: 0 - ndis0 - ndis0
NDIS: Adapter description prefix 'ndis0'
NDIS: Driver supports OID_802_11_CAPABILITY - NoOfPMKIDs 16 NoOfAuthEncrPairs 14
NDIS: driver capabilities: key_mgmt 0x1f enc 0xf auth 0x3
Own MAC address: 00:00:00:00:00:22
wpa_driver_ndis_set_wpa: enabled=1
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
Setting scan request: 0 sec 100000 usec
Added interface ndis0
State: DISCONNECTED -> SCANNING
Starting AP scan (specific SSID)
Scan SSID - hexdump_ascii(len=7):
4d 59 57 49 46 49 MYWIFI
Trying to get current scan results first without requesting a new scan
to speed up initial association
Scan results: 0
Selecting BSS from priority group 0
Try to find WPA-enabled AP
Try to find non-WPA AP
No suitable AP found.
Setting scan request: 0 sec 0 usec
Starting AP scan (specific SSID)
Scan SSID - hexdump_ascii(len=0):
NDIS: turning radio on before the first scan
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
Scan timeout - try to get results
Scan results: 3
Selecting BSS from priority group 0
Try to find WPA-enabled AP
0: 00:00:00:00:00:11 ssid='MYWIFI' wpa_ie_len=0 rsn_ie_len=0 caps=0x11
skip - no WPA/RSN IE
Try to find non-WPA AP
0: 00:00:00:00:00:11 ssid='MYWIFI' wpa_ie_len=0 rsn_ie_len=0 caps=0x11
selected non-WPA AP 00:00:00:00:00:11 ssid='MYWIFI'
Trying to associate with 00:00:00:00:00:11 (SSID='MYWIFI' freq=2437 MHz)
Cancelling scan request
WPA: clearing own WPA/RSN IE
Automatic auth_alg selection: 0x1
WPA: clearing AP WPA IE
WPA: clearing AP RSN IE
WPA: clearing own WPA/RSN IE
```

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```
No keys have been configured – skip key clearing
ndis_get_oid: oid=0xd010101 len (6) failed
State: SCANNING -> ASSOCIATING
NDIS: Re-setting static WEP key 0
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_set_oid: oid=0xd010119 len (4) failed
NDIS: Failed to set OID_802_11_PRIVACY_FILTER (0)
Setting authentication timeout: 10 sec 0 usec
EAPOL: External notification – portControl=ForceAuthorized
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
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ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
Authentication with 00:00:00:00:00:00 timed out.
Added BSSID 00:00:00:00:00:11 into blacklist
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
State: ASSOCIATING -> DISCONNECTED
EAPOL: External notification – portEnabled=0
EAPOL: External notification – portValid=0
Setting scan request: 0 sec 0 usec
State: DISCONNECTED -> SCANNING
Starting AP scan (broadcast SSID)
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_get_oid: oid=0xd010101 len (6) failed
Scan timeout – try to get results
Scan results: 3
Selecting BSS from priority group 0
Try to find WPA-enabled AP
0: 00:00:00:00:00:11 ssid='MYWIFI' wpa_ie_len=0 rsn_ie_len=0 caps=0x11
skip – no WPA/RSN IE
Try to find non-WPA AP
0: 00:00:00:00:00:11 ssid='MYWIFI' wpa_ie_len=0 rsn_ie_len=0 caps=0x11
selected non-WPA AP 00:00:00:00:00:11 ssid='MYWIFI'
Trying to associate with 00:00:00:00:00:11 (SSID='MYWIFI' freq=2437 MHz)
Cancelling scan request
WPA: clearing own WPA/RSN IE
Automatic auth_alg selection: 0x1
```

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WPA: clearing AP WPA IE
WPA: clearing AP RSN IE
WPA: clearing own WPA/RSN IE
No keys have been configured – skip key clearing
ndis_get_oid: oid=0xd010101 len (6) failed
State: SCANNING -> ASSOCIATING
NDIS: Re-setting static WEP key 0
ndis_get_oid: oid=0xd010101 len (6) failed
ndis_set_oid: oid=0xd010119 len (4) failed
NDIS: Failed to set OID_802_11_PRIVACY_FILTER (0)
Setting authentication timeout: 10 sec 0 usec
EAPOL: External notification – portControl=ForceAuthorized
ndis_get_oid: oid=0xd010101 len (6) failed
NDIS: ReqFixed=0x3 RespFixed=0x7 off_req=40 off_resp=92 len_req=52 len_resp=30
NDIS: 3 BSSID items to process for AssocInfo
Association info event
req_ies – hexdump(len=52): 00 07 5a 49 5f 57 49 46 49 01 08 82 84 8b
96 24 30 48 6c 21 02 08 12 24 02 01 0e 32 04 0c 12 18 60 dd 06 00 40
96 01 01 00 dd 09 00 10 18 02 00 11 00 00 00
resp_ies – hexdump(len=30): 01 08 82 84 8b 96 0c 18 30 48 32 04 12 24
60 6c dd 0c 00 03 7f 02 01 01 52 00 02 a4 40 00
beacon_ies – hexdump(len=96): 00 07 5a 49 5f 57 49 46 49 01 08 82 84
8b 96 0c 18 30 48 03 01 06 05 04 00 01 20 10 07 06 47 42 20 01 0d 12
2a 01 00 32 04 12 24 60 6c dd 09 00 03 7f 01 01 00 17 00 00 dd 0c 00
03 7f 02 01 01 52 00 02 a4 40 00 dd 18 00 50 f2 02 01 01 00 00 03 a4
00 00 27 a4 00 00 42 43 5e 00 62 32 2f 00
WPA: clearing own WPA/RSN IE
WPA: clearing AP WPA IE
WPA: clearing AP RSN IE
State: ASSOCIATING -> ASSOCIATED
Associated to a new BSS: BSSID=00:00:00:00:00:11
Associated with 00:00:00:00:00:11
WPA: Association event – clear replay counter
EAPOL: External notification – portEnabled=0
EAPOL: External notification – portValid=0
EAPOL: External notification – portEnabled=1
EAPOL: SUPP_PAE entering state S_FORCE_AUTH
EAPOL: SUPP_BE entering state IDLE
Cancelling authentication timeout
Removed BSSID 00:00:00:00:00:11 from blacklist
State: ASSOCIATED -> COMPLETED
CTRL-EVENT-CONNECTED – Connection to 00:00:00:00:00:11 completed
(auth) [id=0 id_str=]
Cancelling scan request

driver used

#####

<ftp://ftp.hp.com/pub/softpaq/sp34001-34500/sp34152.exe>

The Broadcom ndis driver version 4.40.19.0 failed to detect the device

<ftp://ftp.hp.com/pub/softpaq/sp33001-33500/sp33008.exe>

Thanks for help.

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Regards
Kevin Foo

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