

# How to append vendor specific IE in driver management frames

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## Introduction

This document can teach user, how to append vendor specific IE in Realtek driver management frames by iwpriv (rtwpriv) command.

Please follow those steps to set vendor ie setting.

## Driver setting.

1. Please enable append vendor ie feature from Makefile

`CONFIG_APPEND_VENDOR_IE_ENABLE = n ==>`

`CONFIG_APPEND_VENDOR_IE_ENABLE = y`

## Step.

1. Insert Realtek driver  
Ex: `insmod 8821au.ko`
2. Up interface  
Ex: `ifconfig wlan0 up`
3. Use iwpriv tools (or rtwpriv tools) and command “vendor\_ie\_set” to set vendor ie  
Ex: `iwpriv wlan0 vendor_ie_set`  
`0,5,dd3300e04c0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef`
4. Can use iwpriv tools (or rtwpriv tools) and command “vendor\_ie\_get” to get vendor ie setting
5. Run hostapd or wpa\_supplicant

**Note: If want to change vendor IE , after setting , must restart hostapd or wpa\_supplicant.**

0,5,dd3300e04c0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef  
0123456789abcdef

or

**iwpriv wlan0 vendor\_ie\_set**

**3,3,dd3300e04c0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef  
0123456789abcdef**

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## 2. vendor\_ie\_get:

**iwpriv [interface\_name] vendor\_ie\_get [vendor\_ie\_number]**

interface\_name: wifi interface name

vendor\_ie\_number: want check appended vender ie number , can support number 0~4 , totals 5 groups

vendor ie.

ex: To get group 0 setting or get group 3 setting

```
iwpriv wlan0 vendor_ie_get 0
wlan0      vendor_ie_get:
Vendor IE num 0 , Mask:5 [Beacon][Probe Resp]
Vendor IE:
dd3300e04c0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef01234
56789abcdef
or
iwpriv wlan0 vendor_ie_get 3
wlan0      vendor_ie_get:
Vendor IE num 3 , Mask:3 [Beacon][Probe Req]
Vendor IE:
dd3300e04c0123456789abcdef0123456789abcdef0123456789abcdef0123456789abcdef01234
56789abcdef
```

## 3. Clear vendor ie setting:

ex: To clear vendor ie number 1 group

```
iwpriv wlan0 vendor_ie_set 1,0,0
```

Can use vendor\_ie\_get to check

```
iwpriv wlan0 vendor_ie_get 0
wlan0      vendor_ie_get:
Vendor IE num 0 , Mask:0
Vendor IE:
```