NAME

ipw - Intel PRO/Wireless 2100 IEEE 802.11 driver

SYNOPSIS

To compile this driver into the kernel, place the following lines in your kernel configuration file:

device ipw device ipwfw device pci device wlan device firmware

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

```
if_ipw_load="YES"
```

In both cases, place the following line in loader.conf(5) to acknowledge the firmware license (see below):

```
legal.intel_ipw.license_ack=1
```

DESCRIPTION

The **ipw** driver provides support for the Intel PRO/Wireless 2100 MiniPCI network adapter. **ipw** supports **station**, **adhoc**, and **monitor** mode operation. Only one virtual interface may be configured at any time. For more information on configuring this device, see ifconfig(8).

This driver requires the firmware built with the **ipwfw** module to work. For the loaded firmware to be enabled for use the license at /usr/share/doc/legal/intel_ipw.LICENSE must be agreed by adding the following line to loader.conf(5):

```
legal.intel_ipw.license_ack=1
```

FILES

/usr/share/doc/legal/intel_ipw.LICENSE ipw firmware license

EXAMPLES

Join an existing BSS network (i.e., connect to an access point):

ifconfig wlan create wlandev ipw0 inet 192.168.0.20 \ netmask 0xffffff00

Join a specific BSS network with network name "my_net":

ifconfig wlan create wlandev ipw0 ssid my_net up

Join a specific BSS network with 64-bit WEP encryption:

ifconfig wlan create wlandev ipw0 ssid my_net \
wepmode on wepkey 0x1234567890 weptxkey 1 up

Join a specific BSS network with 128-bit WEP encryption:

ifconfig wlan create wlandev ipw0 wlanmode adhoc ssid my_net \ wepmode on wepkey 0x01020304050607080910111213 weptxkey 1

DIAGNOSTICS

ipw%d: device timeout The driver will reset the hardware. This should not happen.

ipw%d: firmware error The onboard microcontroller crashes for some reason. The driver will reset the hardware. This should not happen.

ipw%d: timeout waiting for firmware initialization to complete The onboard microcontroller failed to initialize in time. This should not happen.

ipw%d: could not load firmware image '%s' The driver failed to load the firmware image using the firmware(9) subsystem. Verify the ipwfw(4) firmware module is installed and the license agreement loader(8) tunable has been set.

ipw%d: could not load microcode An attempt to upload the microcode image to the onboard microcontroller failed. This should not happen.

ipw%d: could not load firmware An attempt to upload the firmware image to the onboard microcontroller failed. This should not happen.

SEE ALSO

ipwfw(4), pci(4), wlan(4), wlan_ccmp(4), wlan_tkip(4), wlan_wep(4), ifconfig(8), wpa_supplicant(8)

AUTHORS

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