

NAME

iwi - Intel PRO/Wireless 2200BG/2225BG/2915ABG IEEE 802.11 network driver

SYNOPSIS

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

```
device iwi
device iwifw
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_iwi_load="YES"
```

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

```
legal.intel_iwi.license_ack=1
```

DESCRIPTION

The **iwi** driver provides support for Intel PRO/Wireless 2200BG/2225BG/2915ABG IEEE 802.11a/b/g wireless network devices in **station**, **adhoc**, and **monitor** mode operation. Only one virtual interface may be configured at any time.

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

```
legal.intel_iwi.license_ack=1
```

For more information on configuring this device, see ifconfig(8).

HARDWARE

The **iwi** driver supports the following wireless network devices:

- Intel PRO/Wireless 2200BG MiniPCI Network Connection
- Intel PRO/Wireless 2225BG PCI Network Connection
- Intel PRO/Wireless 2915ABG MiniPCI Network Connection

FILES

/usr/share/doc/legal/intel_iwi.LICENSE **iwi** firmware license

EXAMPLES

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

```
ifconfig wlan create wlandev iwi0 inet 192.0.2.20/24
```

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

```
ifconfig wlan create wlandev iwi0 ssid my_net up
```

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

```
ifconfig wlan create wlandev iwi0 ssid my_net \  
wepmode on wepkey 0x1234567890 weptxkey 1 up
```

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

```
ifconfig wlan create wlandev iwi0 wlanmode adhoc ssid my_net \  
wepmode on wepkey 0x01020304050607080910111213 weptxkey 1
```

DIAGNOSTICS

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

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

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

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

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

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

iwifw(4): could not load main firmware An attempt to upload the main firmware image to the onboard microcontroller failed. This should not happen.

SEE ALSO

iwifw(4), pci(4), wlan(4), wlan_ccmp(4), wlan_tkip(4), wlan_wep(4), networking(7), ifconfig(8), wpa_supplicant(8)

AUTHORS

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