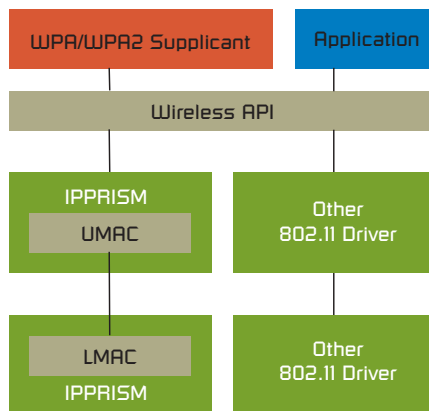


IPPRISM

Wireless Driver

for Conexant's PRISM 802.11 chipsets

Wireless networks based on the IEEE WiFi 802.11 standard can enable devices to connect to a local network and the Internet in a cost-effective manner. Diverse industries such as healthcare, retail, consumer, manufacturing, and government affairs can now benefit from wireless and simplified connectivity, increasing the demand for equipment to operate over WiFi networks. Interpeak's products enable developers to bring their wireless devices to market faster, with lower development risks. Our expansive product line provides integrated networking and security solutions for wireless devices and other types of embedded products that require wireless connection to a network.



A Full-Featured Driver

IPPRISM, Interpeak's Wireless Driver for Conexant's PRISM 802.11 chipsets, supports a range of Conexant's popular 802.11 chipsets. IPPRISM is a full-featured driver that supports the current 802.11a/b/g standards for both Stations and Access Points.

Architecture

IPPRISM is based on Conexant's SoftMAC driver architecture, which includes two parts, UMAC (Upper MAC) and LMAC (Lower MAC). UMAC runs on the host processor and LMAC runs on the actual wireless chipset. Separating the driver into two parts will result in less complex and less costly wireless chipsets.

IPPRISM Features

- > Supports most popular operating systems out of the box (Linux, INTEGRITY and OSE)
- > Portable to other operating systems and 802.11 chipsets
- > Configurable both as Access Point and Station
- > Validated with a range of 802.11 PCI cards
- > Control and configuration via the open Wireless API and/or shell commands
- > Supports all Conexant chipsets available with SoftMAC
- > Supports AES, TKIP and WEP encryption
- > Integrated with Interpeak's WPA/WPA2 Supplicant for wireless security

Integration with Wireless API

IPPRISM is integrated with Interpeak's Wireless API. The Wireless API is a unified IOCTL-based command interface to configure and manage wireless chipsets. The Wireless API will allow new drivers and chipsets to be easily integrated. Customer applications using the Wireless API will be transparent to the actual driver and chipset.

Wireless Security

Security is paramount when connecting devices over a wireless network. IPPRISM supports AES, TKIP and WEP for encryption. For authentication, Interpeak has developed a WPA/WPA2 Supplicant (IPWPASUP) that follows the WiFi specifications for authentication of wireless devices. The WPA/WPA2 supplicant is integrated and validated with IPPRISM.

Supported Chipsets

IPPRISM supports the following Conexant chipsets

Chipset	Base Band	Interface	802.11 Standard
Javelin	3886	PCI/mPCI	b/g
Xbow	3886	PCI/mPCI	a/b/g
Cohiba	3887	USB 2.0	a/b/g
Duette	3890	PCI/mPCI	b/g
Phaser	3110	SPI	b/g

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