

APP05

Wireless LAN Monitor Update

Gain new Wireless LAN connectivity !

Overview

- Wireless LAN Monitor V1.20 in short
- The new GenMac driver
- New Wireless LAN Monitor features of V2.00

Wireless LAN Monitor V1.20 in short

Wireless LAN Monitor V1.20 in short (I/II)

- supports the GenPrism driver interface and with it the following drivers:
 - GenPrism driver V2.0
 - Artem driver V1.42
 - Cisco driver for 340/350 Series
 - several IBM drivers
- supported hardware
 - PCMCIA cards (Artem, Cisco, others ...)
 - few built-in IBM mini-PCI cards

Wireless LAN Monitor V1.20 in short (II/II)

- further perspectives with the GenPrism driver
 - no further development
 - code owned by IBM
- => dead end !

The new GenMac driver

The new GenMac driver (I/VI)

- is an OS/2 // eCS generic NDIS driver
- designed and implemented by Willibald Meyer (author of ISDNPM a.k.a. eCSCoNet, part of eCS V1.2)
- intended as integral part of upcoming eComStation versions

The new GenMac driver (II/VI)

- implements an environment for Win32 drivers
 - currently emulates about 170 APIs of Kernel, Hardware Abstraction Layer (HAL), other...
- loads Windows drivers selected by user in MPTS
- checks for corresponding hardware via PCI sniffer

The new GenMac driver (III/VI)

- with V1.00 supports the following cabled NICs
 - SK/Marvel Gigabit A
- with V1.00 supports the following wireless NICs
 - Atheros B/G
 - Atheros A/B/G
 - Intel Wireless 2100
 - Intel Wireless 2200 BG
 - Broadcom Wireless B/A

The new GenMac driver (IV/VI)

- supported with GenMac V1.00
 - IEEE 802.11b (11 Mbit, 2.4 Ghz) [as with GenPrism]
 - IEEE 802.11g (54 Mbit, 2.4 Ghz)
 - IEEE 802.11a (54 Mbit, 5 Ghz)
 - WEP encryption (64/128 Bit) [as with GenPrism]
 - scan for hotspots in range
- supported with forthcoming versions
 - WPA encryption, more drivers, USB support

The new GenMac driver (V/VI)

- customized windows driver files
 - are part of the respective GenMac version
 - can only used for hardware tested with it
 - cannot be replaced by user by newer/other versions !
- GenMac maintainer
 - adds new drivers for new hardware
 - replaces drivers with newer versions, if required

The new GenMac driver (VI/VI)

- Adding/replacing windows drivers
 - always requires profound testing with hardware
 - may require implementation of additional Win APIs
- Tell ktk@netlabs.org about your network interface cards that could use GenMac support
 - as no native OS/2 driver is available for your cabled NIC!
 - as the existing GenPrism (alike) driver for your wireless NIC does not fit your needs (e.g. in terms of encryption, scan feature) !

New Wireless LAN Monitor features

New Wireless LAN Monitor features (I/III)

- new interface modules
 - comes with `genprism.dim` and `genmac.dim`
 - easy implementation of new modules possible
- scan for hotspots in range (GenMac drivers only)
- determine IP interface bound to driver
 - detected automatically by GenMac supported drivers
 - read from `protocol.ini` at PM startup for non-GenMac drivers

Your questions ?

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 - with free programs for OS/2 and eComStation
 - my PGP key
- Member of Team OS/2 Germany
- OS/2 user since 1990 with OS/2 V1.2

my OS/2 programs and activities

- author of
 - Wireless LAN Monitor
 - Internet Assistant for OS/2 and eComStation
 - Netlabs EPM Distribution
 - HyperText/2, Netlabs Open Source Archive Administrator and Client, Animated Mouse Pointer for OS/2, Task List Hide, SendYes!, EuroCalc, lots more...
- involved in
 - XWorkplace, ISDNPM, OS/2 Netlabs Open Source Archives
 - planning and/or supporting events of Team OS/2 Germany
 - local fairs, Warpstock Europe events

**Thank you very much
for your attention !**

See
The Wireless LAN Monitor with GenMac
during
Warpstock Europe 2005
at the booth of
Team OS/2 Germany