

Supported Networks

OmniPeek Professional can analyze traffic on Ethernet, Fast Ethernet, or Wireless networks.

Ethernet

- IEEE 802.3
- Ethernet Type 2
- Data Rates: 10, 100, and 1000 Mbps

Wireless

- Wireless 802.11 a/b/g/n
 - 802.11a: 6, 9, 12, 18, 24, 36, 48, 54, 72, 96, 108 Mbps
 - 802.11b: 1, 2, 5.5, and 11 Mbps
 - 802.11g: 5.5, 6, 9, 11, 12, 18, 22, 24, 33, 36, 48, 54 Mbps
 - 802.11n: Up to 450 Mbps (3-Stream)

Supported Network Adapters

Ethernet Cards

OmniPeek will run with any NDIS 3 or higher compatible Ethernet promiscuous mode network adapter. Almost all Ethernet adapters on the market today meet this requirement. For example, we are compatible with adapters from 3Com, Intel, Xircom, SMC, and many others.

Wireless LAN Adapter

For wireless packet capture, OmniPeek requires the installation of a special NDIS driver for a supported network adapter. For more information and to download wireless drivers, please visit:

www.wildpackets.com/support/omni/omnipeek_professional/wireless

Decryption

- WPA/PSK
- WEP
- WPA2/AES

Noise Measurement

WLAN cards based on the Atheros chipset measure the noise to know how to distinguish between the noise and the actual signal. Using the Atheros driver, OmniPeek measures that noise every time it receives a packet and displays it in the Signal Tab as Noise (%)/Noise (dBm).

Hardware Timestamping

Using the Atheros Driver, OmniPeek can provide a hardware based timestamp with microsecond accuracy. OmniPeek adds the computer time at the start of the capture and obtains a microsecond hardware timer.

Supported Operating Systems and Browser

Windows XP Professional (SP3), Windows Server 2003 (SP2), Windows 7, or Windows Server 2008

All operating systems require Microsoft Internet Explorer 8, Adobe Flash Player 10 and Microsoft .NET Framework 2.0.

Minimum System Requirements

OmniPeek supports most rack mount, desktop, and portable computers as long as the basic system requirements needed to run the operating systems are met. Depending on traffic and the particular usage of OmniPeek, the requirements may be substantially higher.

Recommended System

P4 2 GHz; 2 GB RAM; 10 GB Available Hard Disk Space

Heavier Usage Recommendations

Factors that contribute towards superior performance include, high speed CPU, dual CPUs, high performance disk storage

subsystem (RAID 0), and as much additional hard disk space as is required to save the trace files that you plan to manage.

Error Packet Capture

OmniPeek has the ability to capture error packets on the network. These errors include: Runt, Oversize, Frame Alignment, and CRC Errors. To capture errors on Wireless, supported wireless cards with a special WildPackets driver must be installed.

Protocols

OmniPeek decodes numerous protocols and subprotocols. A list of higher level protocols can be found at: www.wildpackets.com/support/omni/omnipeek_professional/decodes

GPS

OmniPeek can communicate with a GPS receiver using a separate utility, the WildPackets GPS Daemon, as the interface between itself and the GPS receiver. OmniPeek can include the data provided by a GPS receiver in Capture windows. For each packet, optional columns in the Packets view can show the GPS Time, Latitude, Longitude, Altitude, and Speed most recently reported by the connected GPS receiver. The daemon supports GPS receivers following the NMEA (National Marine Equipment Association) 0183 standard which provide data in recognized GPS sentences (commaseparated ASCII data strings) in the GPRMC and GPGLL formats. Devices following NMEA 0183 must be connected using an RS-232 serial port (COM port).