



# Enhanced Media Option

OmniPeek Workgroup Pro and OmniPeek Enterprise v5 with  
Enhanced Media Option Technical Specifications

Note: For more information on OmniPeek Workgroup and OmniPeek Enterprise, please visit:

OmniPeek Workgroup: <http://www.wildpackets.com/products/omnianalysis/workgroup/overview>

OmniPeek Enterprise: <http://www.wildpackets.com/products/omnianalysis/enterprise/overview>

## Troubleshooting Tools

Jitter software resolution:	±1 msec
Packet delay variation resolution:	±1%
Packet loss resolution:	±1%
MOS (Mean Opinion Score) resolution:	±0.001

## Enhanced Intelligent Filters

- Customizable IP filters
- Signaling filters: H.323, SIP, MEGACO, MGCP and SCCP
- Call ID filters: caller and called
- Threshold filters: jitter and packet loss

## General Statistics

- Average jitter
- Packet loss

## Voice

- MOS Score (Mos-LQ, MOS-CQ, MOS-PQ, MOS-Nom)
- R Factor (Listening, Conversational, G.107, Nominal)

## Video

- VS-AQ: Video Service Audio Quality
- VS-MQ: Video Service Multimedia Quality
- VS-PQ: Video Service Picture Quality.
- VS-TQ: Video Service Transmission Quality.
- MOS Score (MOS-A, MOS-AV, MOS-MQ, MOS-V)

## WildPackets

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## Graphs

### Voice

- Call duration
- Bandwidth utilization
- Error cause distribution
- Impairment statistics
- Number of Calls

## Supported Networks

OmniPeek can analyze traffic on Ethernet, Fast Ethernet, Gigabit Ethernet, 10GbE, Wireless or WAN networks.

## Supported Operating Systems and Browser

Windows XP Professional (SP2)(VoIP 4.x Enabled)

Windows Vista, Windows XP Professional (SP2), or Windows Server 2003 (SP2) (VoIP 4.x Disabled)

All operating systems require Internet Explorer 6.0 (SP1) 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 to run the supported operating systems are met. Depending on traffic and the particular usage of OmniPeek, the requirements may be substantially higher.

## Recommended System

P4 2.4 GHz Processor; 1 GB RAM; 20 GB Available HD Space

## Heavier Usage Recommendations

Factors that contribute towards superior performance include high speed CPU, dual CPUs, two or more GB of RAM, 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.

## Protocols and Codecs

OmniPeek decodes numerous voice and video specific protocols and sub-protocols. Below is a list of the supported higher-level protocols and codecs.

### Protocols

ISDN Q.921, Q.850, Q.931, Q.932, Q.952, Q.953, Q.955, Q.956, Q.957, SAP, SSSDP, SIP, SCCP, SDP RTP, MGCP, Megaco, RAS (H.323), H.225, H.245, H.248, H.261.

### Codecs

Voice: G.711 u-law, G.711 a-law, G.723.1 5.3K, G.723.1 6.3K, G.729, G.729a, G.729b, G.728 16k.

Video: JPEG-compressed Video, MPEG Video, MPEG-2 Transport, H.261, H.263, H.263+, H.264, MPEG-4 Video, VC1

Audio: MPEG Audio Layer 1, MPEG Audio Layer 2, MPEG Audio Layer 3, MPEG-2 AAC, AC-3 Audio, MPEG-4 AAC, MPEG-4 LD-AAC, MPEG-4 HE-AAC

## Audio Compression Formats Supported for Playback

G.711 a-law, G.711 u-law, G.723.1 5.3K, G.723.1 6.3K, G.726 32kb, G.729, G.729a, AMR, GSM-FR.

## Audio Compression Formats Supported for Passive MOS

G.711 a-law, G.711 u-law, G.723.1 5.3K, G.723.1 6.3K, G.726 16kb, G.726 24kb, G.726 32kb, G.726 40kb, G.729, G.729a, AMR, GSM-FR, G.728 16k.

## Other Protocols

In addition to the voice specific protocols, OmniPeek decodes numerous other protocols and sub-protocols.

A list of the higher level protocols can be found at [http://www.wildpackets.com/support/omni/omnipeek\\_enterprise/decodes](http://www.wildpackets.com/support/omni/omnipeek_enterprise/decodes)