

# IP Protocols – MAYAH has a wide range of streaming products suitable for integration in nearly any solution



E 1  
 G.711  
 Analog  
 X.21 • V.35  
 Zephyr • TCP  
 Backup • G.722  
 V.35 • Digital • Prima  
 UDP • Gateway • Layer 2  
 RS422 • XLR • Opticodec  
 RTP • Point-To-Multipoint  
 Layer 3 • RS232 • ADAT • Pronto  
 RTSP • Dual Codec • AAC • V.35  
 AES/EBU • Hifiscoop • FTP • Multichannel  
 AAC-LD • E1 • SPDIF • Scoopy • ISMA  
 MPEG 4 AAC • ISDN • CDQ2001 • Unicast  
 AAC HE • DSS1 • Xstream • Multicast  
 AacPlus • NI1 • mp3 • Ethernet • mp3Pro  
 J.41 • J.57 • J.52 • ADPCM4SB • MICDA  
 apt-X • E-apt-X • 64 kbps • 80 kbps • 128  
 kbps • 192 kbps • 256 kbps • 384 kbps  
 448 kbps • 2 Mbit/s • Mono • Dual mono  
 Stereo • Joint stereo • Intensity stereo  
 Multichannel • 5.1 • 7.1 • G.711 • X.21  
 Analog • Zephyr • TCP • Backup • G.722  
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Thanks to MAYAH's extensive experience with audio via IP over the last five years, a variety of streaming protocols have been established in MAYAH products. Thus, MAYAH products can be easily integrated into existing software streaming solutions with existing servers and/or clients, as well as in DVB-H projects or for providing streams for nearly any type of compatible hardware and software.

## ISMA INDUSTRY STREAMING MEDIA ALLIANCE PROTOCOL

Allows product interoperability between manufactures belonging to this strategic alliance.

### Examples:

- Professional MPEG 4 Video Encoders (IO [io] 8000/8001) with Quicktime or Windows Media Players
- Professional MPEG 4 Video Encoders (IO [io] 8000/8001) with PDAs, mobile phones

## RTCP, Real Time Control Protocol

- Synchronisation of source signal (Audio-Video-Sync)
- Clock generation, jitter control

## RTP/RTSP

Allows controlled streaming between hardware or hardware and software products, audio/video on demand, remote control, e.g. start, stop, pause

### Examples:

- CENTAURI® 3000/3001 with ganymed 1002 IP Decoder
- CENTAURI® 4000/4001 Streaming Server with Winamp, Realplayer using MPEG 4 AAC or AAC HE
- Icecast/Shoutcast with ganymed 1002 using mp3 or AAC

Allows the use of CENTAURI®, ganymed 1102 and IO [io] products in DVB-H environments.

### Examples:

- CENTAURI® 4001 with PDAs, mobile phones via DVB-H
- Audio/Video on Demand
- Remote Control (Start, Stop, Pause)

## SAP Session Announcement Protocol

Allows the signaling of available audio or audio/video streams within a given network, supports uni-directional connections

### Examples:

- IO [io] 8000 with Set-top Boxes, VLC-Player
- CENTAURI® 3001 with VLC-Player software

## NTP Network Time Protocol

- Time synchronisation, protocol synchronizing, deriving time over ISDN, providing time to clients

## SDP, Session Description Protocol

- Description of session, e.g. algorithm, etc.
- Basis for SAP, RTSP
- Via HTTP, e.g. if decoder does not support SAP, RTSP