


OVERVIEW

↗ **You can find here an overview of the GPAC features. This page doesn't feature the list of all details and profiles for each specification. Please [contact us](#) if you wish to know more.**



Platforms

- Windows 32/64 bits
- Mac OS X 32/64 bits
- Linux 32/64 bits
- Android
- iOS
- Symbian
- Windows Mobile
- Embedded: ARM/ARC/MIPS/SH4/... architectures



Technologies in the core library

- ISO Base Media File (MP4/3GP)
- ISO file reading/writing
- ISO RTP hint tracks
- ISO fragments
- ISO 'meta' (MP4/MPEG-21)
- MPEG-4 OD Framework
- ODF Minimal support for ISO files
- ODF full support
- IETF AVT Protocols
- RTP/RTCP/RTSP/SDP tools
- media packetizers
- media depacketizers
- Scene Graph
- VRML/BIFS/X3D Support
- SVG Support
- uDOM Support
- DOM and AJAX Support



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Technologies in the core library (suite)

- Scene Manager / Compositor
- SWF (Flash) Transcoder
- VRML/X3D/BIFS 2D/LASer Loader
- Scene dumping
- Scene Engine (encoders and carousel generator)
- QT Cubic Reality loader
- SVG Tiny 1.2 support
- MCrypt
- AES 128 CBC & CTR
- Full MCrypt
- Common Encryption
- Media Tools
- Video import/export (MPEG-2/4, H263, AVC|H264, HEVC|H265)
- Audio import/export (AMR, MPEG-1/2, AAC, AC3)
- Image import/export (PNG, JPEG, JPEG2000)
- Generic Media import (NHNT/NHML)
- Text Subtitle (SRT, 3GPP Timed Text, TTXT, WebVTT, TTML)
- MPEG-2 Transport Stream import
- MPEG-2 TS Multiplexer
- MPEG-2 TS Demultiplexer
- ISO Media File import/export
- Generic Media export (NHNT/NHML)
- Text Subtitle export (SRT, 3GPP Timed Text and TTXT)
- Raw sample dumping
- RTP File streamer
- DVB MPE and DSMCC Carousel for TS Demultiplexer
- MPD (MPEG DASH manifest) Parser and M3U8 (Apple HLS manifest) converter
- Utils
- HTTP downloader and cache
- XML Parser
- Vectorial Path Outliner FreeType
- Cross-platform tools



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GPAC applications

- **MP4Box**
 - All common functionalities (not listed below)
 - Encoding/decoding/dumping/stats of BIFS, LAsEeR or DIMS scenes
 - RTP Hinting
 - ISO File RTP Streaming
 - RTP Streaming and Carouseling of BIFS, LAsEeR and DIMS
 - ISO File encryption and decryption (ISMALCrypt)
 - SWF (flash) Converter
 - ISO File editing (track add/remove, analysis and dumping)
 - ISO File splitting and concatenation
 - ISO File 'meta' packaging
 - ISO file segmenting for MPEG-DASH
 - MPEG-2 TS File segmenting for HTTP Streaming (DASH & HLS)

- **MP4Client or other players**
 - All common functionalities (not listed below)
 - AVI Extraction of playback content
 - Image extraction
 - TS Mux from MP4 source
 - TS Mux for RTP source
 - TS Muxing/Segmenting (Apple HLS, MPEG DASH)
 - Live mode (UDP / RTP output)

↗ For more information about GPAC tools, please visit the [GPAC open source project website](#).