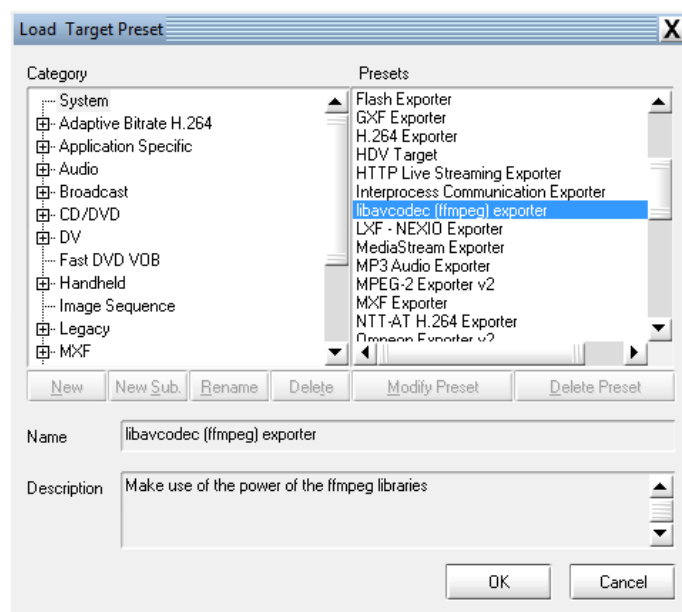# Harmonic (Rhozet) Carbon FFMPEG Exporter PlugIn

What it is

This PlugIn is designed as a coding enhancement for Harmonics (Rhozet) „Carbon Coder". It adds a so called exporter which allows to utilize FFMPEG as coding and muxing engine. This is not achieved by driving a standard FFMPEG build, but by making use of the libavcodec C++ API. The interface is completely native. Any output file is live encoded and muxed within the same transcoding step.

What to use it for

This product allows to encode to formats that are not supported by standard Carbon Coder. This mainly applies to open source formats. Beside this it allows to use alternative codes to achieve higher transcoding speed or better image quality.

How it works

The concept of this add-on is to act as a bridge between FFMPEG and Carbon Coder. This is achieved via Carbon's RPI plugIn API that allows to implement such a bridge which drives the FFMPEG standard "shared" builds (or "dll's").

Specifications

This add-on basically supports all formats (codecs and containers) that are supported by FFMPEG or respectively by the underlying codec pack libav. The most important are:

Containers formats:

- ASF
- AVI
- DV
- Flash 7, 8, 9 (SWF, FLV)
- GXF
- Matroska
- Apple MOV
- MP2
- MP3
- MPEG PS and TS
- MPEG-4
- MXF
- Ogg
- various RAW formats
- REDCODE R3D
- RealMedia
- RTMP, RTP, RTSP
- VC-1 bitstream
- WAV
- WebM

Codecs:

Audio:

- AAC
- AC-3
- AMR
- FLAC
- MP3
- PCM
- RealAudio
- MS Windows Media Audio

Video:

- Apple ProRes
- Avid DNxHD
- DV
- Flash FLV
- H.263
- H.264
- HuffYUV
- Motion JPEG
- MPEG-1
- MPEG-2
- MPEG-4
- VP8
- RealVideo
- MS Windows Media