MainConcept MPEG-2 TS Broadcast Delivery Plugin for FFmpeg

Professional DVB and ATSC Multiplexing for Broadcast Production Workflows

Successful production workflows need to do more than encode video and audio. For professional broadcast delivery, these streams must be interleaved as well. When it comes to MPEG-2 Transport Streams, all streams must follow the standards whether using a proprietary solution or open-source software, such as FFmpeg. This is where the MainConcept MPEG-2 TS Broadcast Delivery Plugin for FFmpeg comes in.

MPEG-2 TS STANDARDS FOR DIGITAL TV BROADCASTING

The MPEG-2 TS Broadcast Delivery Plugin for FFmpeg allows broadcasters to use MainConcept's market-proven MEPG-2 Transport Stream Multiplexer natively within an FFmpeg workflow to generate DVB and ATSC compliant content. The plugin can be deployed on-premise or in the cloud for both streaming and file mode-based use-cases.

CHOOSE THE BEST FROM MAINCONCEPT & FFMPEG

The easy-to-integrate FFmpeg Plugin supports AVC/H.264, HEVC/H.265 and MPEG-2 video as well as AAC and AC-3 audio streams. It seamlessly integrates with other MainConcept Video Encoder Plugins for FFmpeg (AVC/H.264 & HEVC/H.265), plus FFmpeg's built-in video encoders, such as MPEG-2.

The MainConcept MPEG-2 TS Broadcast Delivery Plugin for FFmpeg allows creation of Single-Program Transport Streams (SPTS) or Multi-Program Transport Streams (MPTS), depending on your requirements. The pre-defined broadcast format multiplexer profiles are suitable for those markets where digital TV content creation is key.

ADVANCED MAINCONCEPT MULTIPLEXER SETTINGS FOR FFMPEG

The MainConcept MPEG-2 Transport Streamer Multiplexer within the FFmpeg plugin offers the same options and parameters available in the MainConcept SDKs. All muxer, stream and program settings can be controlled via ready-to-use MainConcept config files. A set of editable sample config files for various use-cases come together with the MainConcept MPEG-2 TS Broadcast Delivery Plugin package so that they can easily be applied in your FFmpeg workflow or service.

> (i) *MainConcept MPEG-2 TS Multiplexing also comes as part of the full-featured MPEG-2, AVC/H.264 and HEVC/H.265 Encoder SDKs.*

OPERATING SYSTEM

- Microsoft Windows 8, Windows 10 (64-bit, x86)
- Linux x86 Ubuntu 16.04 LTS, CentOS 7.4 glibc 2.17 (64-bit)
- Linux ARM Ubuntu 18.04 glibc 2.27, Ubuntu 20.04 glibc 2.31, CentOS 8 glibc 2.28 (64-bit)
- Works with FFmpeg 4.4 (Rao) or FFmpeg 6.0 (Von Neumann)

CREATE SPEC-COMPLIANT BROADCAST STREAMS FROM A VARIETY OF SOURCES

EASY TO INTEGRATE

A simple plugin approach brings MainConcept® multiplexing into your new or existing FFmpeg 4.4 (Rao) or 6.0 (Von Neumann) environment

BROADCAST VIDEO & AUDIO SUPPORT

Support for AVC/H.264, HEVC/H.265, MPEG-2 video and AAC, AC-3 audio

ADVANCED FEATURES

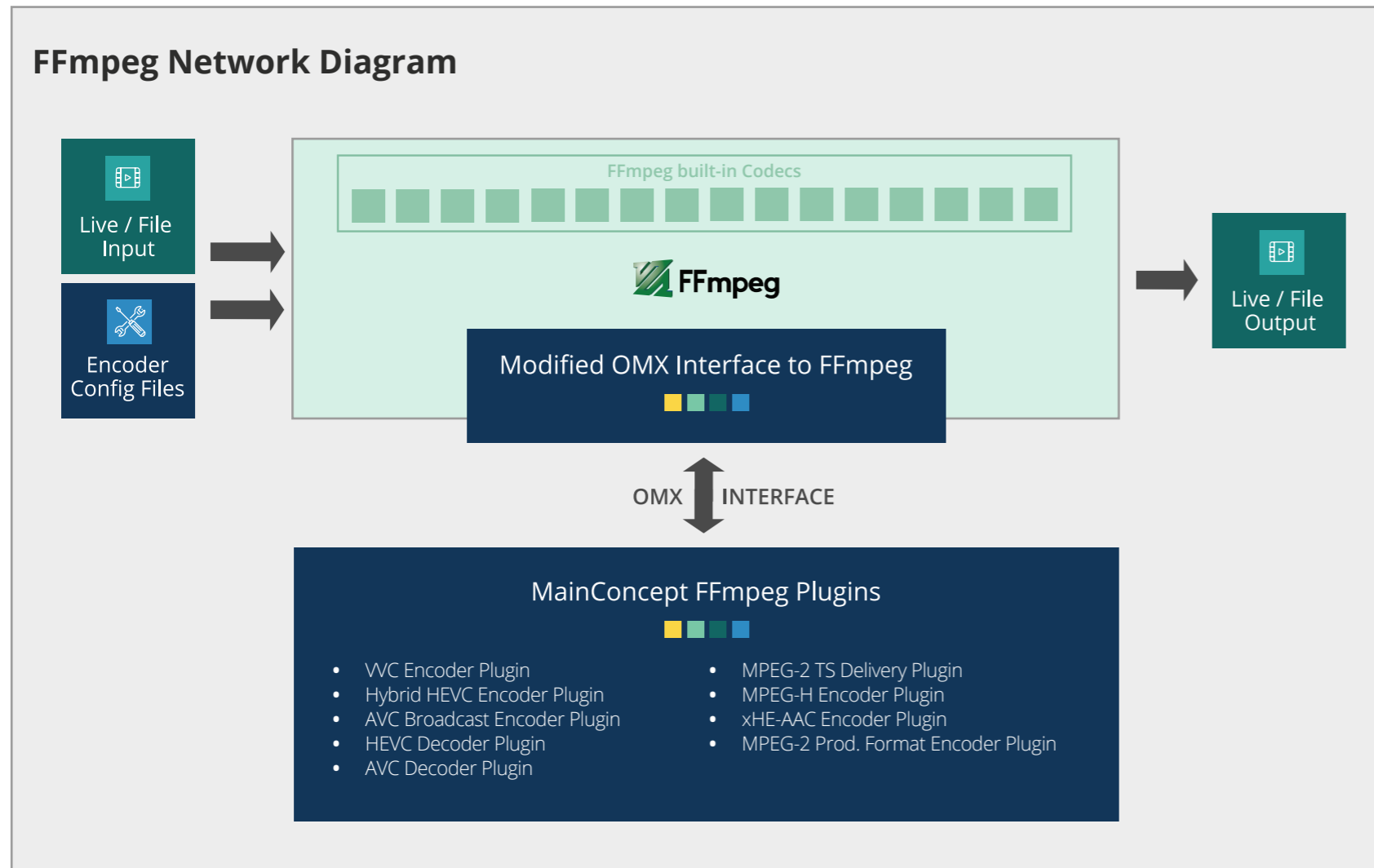Gain full control over all MPEG-2 TS Multiplexer settings for broadcast delivery formats

KEY FEATURES

- Support for SPTS and MPTS
- Support for up to four video and four audio tracks
- DVB subtitle support
- Ready-to-use multiplexer profiles for ATSC and DVB
- Straightforward integration with MainConcept Video Encoder Plugins for FFmpeg plus FFmpeg's built-in video and audio encoders

OPTIMIZE WITH MAINCONCEPT PROFESSIONAL SERVICES

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FFmpeg Network Diagram

Live / File Input

Encoder Config Files

FFmpeg built-in Codecs

FFmpeg

Modified OMX Interface to FFmpeg

Live / File Output

OMX   INTERFACE

MainConcept FFmpeg Plugins

- VVC Encoder Plugin
- Hybrid HEVC Encoder Plugin
- AVC Broadcast Encoder Plugin
- HEVC Decoder Plugin
- AVC Decoder Plugin

- MPEG-2 TS Delivery Plugin
- MPEG-H Encoder Plugin
- xHE-AAC Encoder Plugin
- MPEG-2 Prod. Format Encoder Plugin

MAINCONCEPT FFMPEG PLUGINS

The MainConcept FFmpeg Plugins are a highly flexible product line that enable you to use the industry-leading MainConcept libraries seamlessly in FFmpeg-based use cases and environments. The simple plugin approach for fast integration into FFmpeg leads to quick results without the need to change your workflow. Full parameter control of the MainConcept SDK libraries in combination with FFmpeg's built-in components brings world-class video and audio quality to your solution or service. MainConcept FFmpeg Plugins are free to try and easy to integrate into your workflow.

ABOUT MAINCONCEPT

Since 1993, MainConcept has provided best-of-breed video/audio codec solutions that fuel creativity and business globally for professional video production, multimedia, broadcast, digital signage, gaming, medical and security industries. Our software development kits, transcoding applications and plugins are used across industry verticals to meet an ever-expanding list of use cases. With world-class engineering, exquisite attention to detail, and best-in-class support and professional services, we are constantly innovating to deliver you the simplicity you need with the customer experience you deserve. MainConcept codecs are engineered to surpass the challenges of even the most demanding use cases and are used by organizations such as Adobe, AVID, Autodesk, Corel, Dalet, Endeavor Streaming, Globo, Grass Valley, Intel, MAGIX, Nikon, PlayBox, Soliton, Sony, Telestream, V-Nova and Wowza. For more information, visit www.mainconcept.com.