agile processing

OCR Subtitling

Subtitle transcoding with OCR, from image to text-based, for high quality multi-screen delivery

Cavena OCR Subtitling, part of Agile Processing, provides quick and easy transcoding of subtitles for OTT delivery. It offers the ability to deliver high-quality subtitles to any client, on any screen size, and in any language. Cavena OCR Subtitling is a crucial component in delivering the best quality of experience (QoE) to your OTT TV viewers.

What it does

Cavena OCR Subtitling uses Optical Character Recognition (OCR) technology to automatically and instantly transcode image-based subtitles to text-based subtitles for distribution to client devices. It reads DVB subtitle data from a transport stream and transcodes them on-the-fly to one or more transmission formats using the Cavena-based Subtitle Transmission Unit (STU) or Agile Streambuilder.

The solution can convert DVB bitmaps to text-based formats with high accuracy using OCR technology. This allows for instantaneous OTT delivery in any ABR format. The subtitles are transcoded within frames, ensuring smooth playback for viewers.

Cavena OCR Subtitling supports multiple languages, including Asian character sets, and delivers high-quality subtitles to any client device and in any requested screen format. This ensures the best possible viewing experience for OTT TV viewers, regardless of their location or language preference.

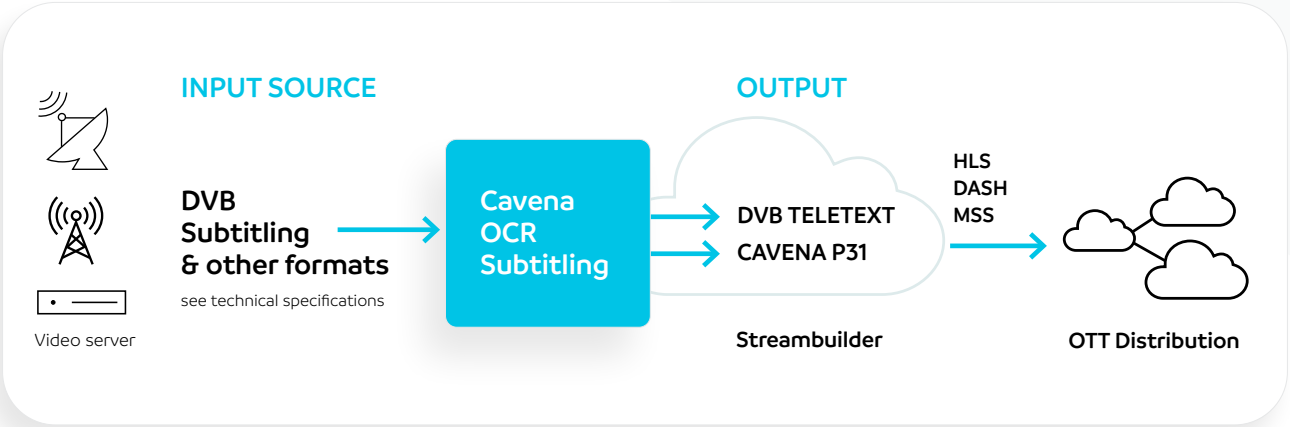
How it works

1. The Subtitle Transmission Unit (STU) reads subtitle data from incoming TV signals or transport streams. Optical Character Recognition (OCR) technology is used to convert image-based subtitles to text-based subtitles for further processing.
2. The converted subtitle file can then be repackaged into any ABR format requested by the client device, using Agile Content's packager or any other repackaging product.
3. The repackaged subtitle file is delivered along with audio and video files in the ABR format requested by the client device.

Features & benefits

- Automated transcoding from image-based to text-based subtitling
- Instantaneous conversion within-frames using OCR technology
- Supporting 100+ languages including Asian languages
- Enables subtitles for any ABR format (HLS, MPEG-DASH, MSS) for multi-screen OTT delivery
- Prepares content for a glitch-free OTT TV experience, stand-alone or integrated with Agile Streambuilder.
- As part of Agile Processing, it enables quick and easy addition of high quality subtitling to your TV services

agile content



Technical specifications

INPUT FORMATS
Transport stream
DVB Teletext (ETSI 300 472)
DVB Subtitling (ETSI 300 743)
SCTE-27
EIA 608/708
ARIB
Cavena format, P31
SDI
EBU Teletext, SD
OP-47/SMPTE 2031, HD
EIA 608/708
Cavena format, P31

OUTPUT FORMATS
DVB Teletext (ETSI 300 472)
DVB Subtitling (ETSI 300 743)
EIA 608/708
SCTE-27
Cavena format, P31
WebVTT
TTML/IMSC-1
TTML/DFXP

CLOUD FRIENDLY
Object based storage
S3
Azure blob
Cloud platforms
AWS
Azure