

# ARANTIA **ADAPTIVE TRANSCODER**

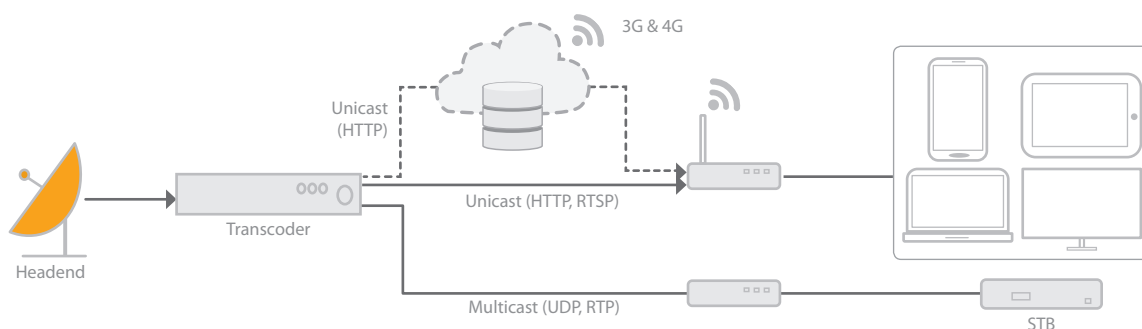
## OTT MULTISCREEN ADAPTIVE TRANSCODER LIVE



### ARANTIA **OTT MULTISCREEN ADAPTIVE TRANSCODER LIVE**

OTT MULTISCREEN ADAPTIVE TRANSCODER LIVE CAN DELIVER LIVE CONTENT (IPTV CHANNELS) TO ANY DEVICE (SMARTPHONES, TABLETS, STBS, PCS, SMARTTVS...) THROUGH ANY KIND OF WIRELESS OR WIRED NETWORK.

FURTHERMORE, OTT MULTISCREEN ADAPTIVE TRANSCODER LIVE CONVERTS FHD AND HD H.264 STREAMS INTO HD OR SD MPEG-2 STREAMS, ALLOWING USER TO WATCH HD CHANNELS IN THEIR OLD MPEG-2 DEVICES.



**Buffering is old fashioned.** Thanks to the technology used by this system the start of playing will be immediately.

**Maximize the play quality.** Using the new streaming adaptive protocols, the video quality can be adecuated to the connection bandwidth between final user and server offering the maximun available quality.

**Green and powerful.** Video encoding full optimized for the hardware of mobile devices which means low battery consumption.

**Clean Mobile.** Installation of new applications not needed, the playing will be done by the mobile device own browser.



# ARANTIA ADAPTIVE TRANSCODER

## OTT MULTISCREEN ADAPTIVE TRANSCODER LIVE

Ref. 832201

TECHNICAL SPECIFICATION

### SERVICE

832201 OTT Multiscreen Adaptive Transcoder LIVE.

### INPUT

#### ENCAPSULATED – PROTOCOLS

HLS - HTTP Live Streaming (Apple), RTMP - Real Time Messaging Protocol, RTMPT - Real Time Messaging Protocol over HTTP, RTP - Real-time Transport Protocol, UDP - User Datagram Protocol, UDP Lite - User Datagram Protocol Lite Version.

#### CONTAINERS

MPEG Transport Stream (ts), MPEG Program Stream (ps), MPEG-4 Part 14 (mp4), Matroska (mkv), Audio Video Interleave (avi), Flash Video (flv), OGG (ogg, ogv), WEBM (webm), Material eXchange Format (mxf) Advanced Systems Format (asf), Third Generation Partnership Project (3gp), YUV (yuv), Versioned Object Base (vob) - DVD.

#### VIDEO CODECS

H.222/H.262 - MPEG-2, H.263 - Sorenson Spark, H.263 v2, H.263 v3 - MPEG-4 Part 2, H.263 v3 - MPEG-4 Visual, H.263 v3 - Divx, H.264 - MPEG-4 AVC (Advanced Video Coding), H.265 - MPEG-H Part 2 HEVC (High Efficiency Video Coding), VP7, VP8, VP9, Theora, RAW.

#### AUDIO CODECS

MPEG-1 Audio Layer II (mp2), MPEG-2 Audio Layer III (mp3), MPEG-2 Part 7 Advanced Audio Coding (AAC), MPEG-4 Part 3 Advanced Audio Coding (LC-AAC & HE-AAC), Free Lossless Audio Codec (flac) Vorbis, Opus, Pulse-code modulation (pcm)

#### SUBTITLES CODECS

MPEG-4 Part 17 Streaming text format (MOV Text), DVB-Subtitles, DVB-Teletext, DVD-Subtitles, SubRip (SRT), SubStation Alpha (SSA/ASS), TrueType (TTF), Real Text (RT), SubViewer (SV), WebVTT.

### OUTPUT

#### VIDEO

Video de-interlace, Frame rate conversion.  
Video cropping and resize.  
Aspect-ratio conversion.  
Color enhancement.  
Logo insertion.  
Subtitles Hardcoded in to video.  
Multiple bit-rate conversion.  
Single pass or double pass encoding.  
Constant or variable bit rate.  
Constant or variable framerate.

H.222/H.262 - MPEG-2	FHD(1080p@30)
H.263 - Sorenson Spark	HD(720p@30)
H.263 v2	HD(720p@50)
H.263 v3 - MPEG-4 Part 2	FHD(1080p@30)
H.263 v3 - MPEG-4 Visual	FHD(1080p@30)
H.263 v3 - Divx	FHD(1080p@30)
H.264 - MPEG-4 AVC	4K (2160p@30)
H.265 - MPEG-H Part 2 HEVC	8K (4320p@128)
VP7	FHD(1080p@50)
VP8	FHD (1080p@60)
VP9	4K (2160p@30)
Theora	FHD (1080p@50)

### PERFORMANCE

1 UHD	H.265 (2160p@30) streaming service	with 6 H.264 profiles (1080p, 720p, 480p, 360p, 240p, 144p) per service
2 UHD	H.264 (2160p@25) streaming service	with 3 H.264 profiles (4K, 360p, 144p) per service
5 FHD	H.264 (1080p@60) streaming service	with 4 H.264 profile (1080p, 720p, 240p, 144p) per service
5 FHD	H.264 (1080p@60) streaming services	with 3 MPEG-2 profiles (1080p, PAL/480p, 360p) per service
6 HD	H.264 (720p@60) streaming services	with 5 H.264 profiles (720p, 480p, 360p, 240p, 144p) per service
12 SD	MPEG-2 (PAL/NTSC) streaming services	with 4 H.264 profiles (480p, 360p, 240p, 144p) per service

### AUDIO

Automatic Gain Control  
Audio Resampling  
Mix channels  
Up to 16 audio tracks per service.

MPEG-1 Audio Layer II (mp2)	384 kbit/s	48 kHz	Stereo
MPEG-2 Audio Layer III (mp3)	320 kbit/s	48 kHz	5.1 (6)
MPEG-2 Part 7 Advanced Audio Coding (AAC)	320 kbit/s	96 kHz	7.1 (8)
MPEG-4 Part 3 Advanced Audio Coding (LC-AAC & HE-AAC)	320 kbit/s	96 kHz	7.1 (8)
Free Lossless Audio Codec (flac)	32.0 Mbit/s		7.1 (8)

### SUBTITLES

DVB-Subtitles, DVB-Teletext, DVD-Subtitles, SSA, ASS, SRT, TTF, MOV, Text, Real Text, SubRip, SubViewer, WebVTT.

### ENCAPSULATED – PROTOCOLS

HLS - HTTP Live Streaming (Apple).  
RTP - Real-time Transport Protocol.  
UDP - User Datagram Protocol.

### OPERATION

Web Interface administrators  
Web responsive interface for users  
Video players multiscreen (responsive).

### HARDWARE SPECIFICATIONS

#### CHASSIS

1U 14.5" Rackmount Chassis (43 x 437 x 369mm)  
4x High-efficiency Fans.  
Weight: 13.4 kg

#### LAN SUPPORT

Quad LAN, 4x GbE LAN ports.

#### POWER SUPPLY

350W AC, 50-60Hz 100-240V 4,2-1,8 A  
Gold efficiency certified.

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