

# Visual Radio

Playout system for VR services  
based on DVB-H and T-DMB



## Features

- Very low bit rate (~60 kbit/s) for the complete service
- Good video quality at low data rate
- Suitable for DVB-H, T-DMB and future DAB-IPDC
- Stream or file input

Visual Radio provides radio service with assisting visual information. Still images are transferred within the MPEG-4 video stream at a configurable refresh rate typically every two seconds. The MPEG-4 audio stream transmits the audio program as usual. The still images might contain news, the weather report, or information about the current music program.

The complete service requires only a very low data of about 60 kbit/s.

## Input:

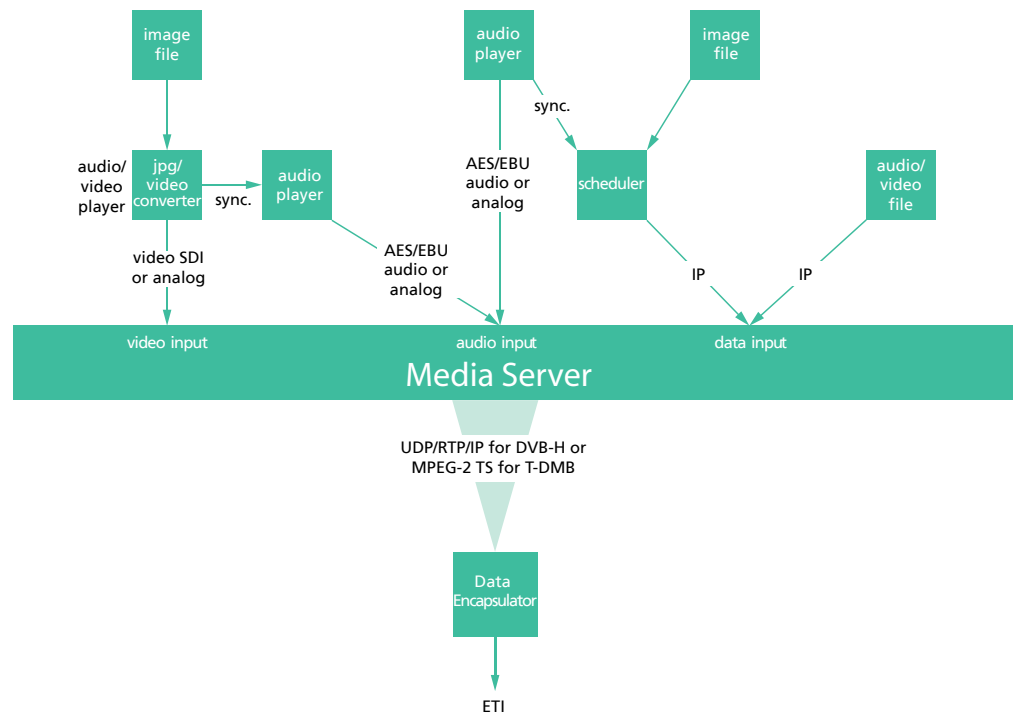
Audio: Analog, AES/EBU or via Ethernet as AVI or MPEG-4 files

Video: Analog, SDI or via Ethernet as AVI or MPEG-4 files

## Output:

Audio: Stereo, HE-AACv2 @ 32 or 48 kbit/s

Video: Still image (QVGA, 320 x 240) every 2 sec, H.264/AVC @ 10-15 kbit/s



The media server of the Visual Radio playout system supports three different media inputs:

- 1** Each image contained in a JPEG file is converted to video and fed as an analog or digital (SDI) video signal to the media server. The media server continuously encodes the incoming synchronized audio and video signals.
- 2** Analog or digital (AES/EBU) audio input and video as image file:  
Each image file (uncompressed or JPEG) is fed to the media server via a scheduler, which takes care of the synchronisation with audio (slide show). The media server continuously encodes the incoming audio signal and image files.
- 3** Audio and image data are stored in one audio/video AVI or MPEG-4 file and transferred to the media server. The media server encodes the audio/video file in a loop until the next A/V file is received.

### Contact

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