IEEE Standard for Systems of Advanced Audio and Video Coding

IEEE Computer Society

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IEEE Computer Society

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Abstract: Storage file formats and real-time transport protocol (RTP) payload formats for IEEE 1857™ video and IEEE 1857.2™ audio are defined. The storage of video and audio not only uses the existing capabilities of the ISO base media file format, but also defines extensions to support specific features of the IEEE 1857 video codec and IEEE 1857.2 audio codec. The target applications and services include but are not limited to Internet media streaming, IPTV, video conference, video telephony, and video-on-demand.

Keywords: audio, box, file format, IEEE 1857.3™, NAL unit, packetization, RTP payload format, storage, system, track, transmission, video

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Introduction

This standard defines the storage file formats and RTP payload formats for IEEE 1857 video and IEEE 1857.2 audio.

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1. Overview

1.1 Scope

This standard specifies the storage file format and real-time transport protocol (RTP) payload format for the compressed video data created by IEEE Std 1857™ and the compressed audio data created by IEEE Std 1857.2™.[1] The storage format is aimed at extending the *ISO base media file format* to support specific features of IEEE 1857 video and IEEE 1857.2 audio, and the RTP payload format defines the specific payload format to convey IEEE 1857 video and IEEE 1857.2 audio by RTP packets.

1.2 Purpose

This standard provides regular and efficient system level tool sets that describe the file storage format and RTP payload format for IEEE Std 1857 video and IEEE 1857.2 audio while storing and streaming over Internet protocol (IP) networks.

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[1] Information on references can be found in Clause 2.