

# P1857.3

---

**Submitter Email:** [wgao@pku.edu.cn](mailto:wgao@pku.edu.cn)  
**Type of Project:** New IEEE Standard  
**PAR Request Date:** 27-Aug-2012  
**PAR Approval Date:** 02-Nov-2012  
**PAR Expiration Date:** 31-Dec-2016  
**Status:** PAR for a New IEEE Standard

---

**1.1 Project Number:** P1857.3  
**1.2 Type of Document:** Standard  
**1.3 Life Cycle:** Full Use

---

**2.1 Title:** Standard for System of Advanced Audio and Video Coding

---

**3.1 Working Group:** Audio Video Coding Working Group (C/SAB/AVS\_1857\_WG)

**Contact Information for Working Group Chair**

**Name:** Wen Gao  
**Email Address:** [wgao@pku.edu.cn](mailto:wgao@pku.edu.cn)  
**Phone:** +86-10-62758116

**Contact Information for Working Group Vice-Chair**

**Name:** Cliff Reader  
**Email Address:** [cliff@reader.com](mailto:cliff@reader.com)  
**Phone:** +1-408-867 4884

---

**3.2 Sponsoring Society and Committee:** IEEE Computer Society/Standards Activities Board (C/SAB)

**Contact Information for Sponsor Chair**

**Name:** Charlene Walrad  
**Email Address:** [cwalrad@daven.com](mailto:cwalrad@daven.com)  
**Phone:** 650-580-3003

**Contact Information for Standards Representative**

**Name:** p eastman  
**Email Address:** [peastman@cox.net](mailto:peastman@cox.net)  
**Phone:** (602) 993-7085

---

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 12/2013

**4.3 Projected Completion Date for Submittal to RevCom:** 07/2014

---

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 20

**5.2 Scope:** This part of the standard specifies the storage file formats and RTP (Real-time Transport Protocol) payload format for compressed video and audio data, such the compressed video data created by IEEE P1857- Standard for Advanced Audio and Video Coding, and/or the compressed audio data created by an on going project IEEE 1857.2 - Standard for Advanced Audio and Video Coding, Part 2: Audio. The storage format is aimed to extend ISO Base Media File Format to support specific features of the IEEE 1857 video and IEEE 1857.2 audio, and the RTP payload format defines the specific payload format to convey IEEE P1857 video and IEEE 1857.2 audio by RTP packets.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** No

**5.4 Purpose:** This part of the standard provides regular and efficient system level tool sets which describe the file storage format and RTP(Real-time Transport Protocol) Payload format for the IEEE-SA P1857 video and IEEE 1857.2 audio while storing and streaming over IP network.

**5.5 Need for the Project:** There are some alternative specifications with similar purpose but they do not satisfy the need for balance between efficiency and complexity required for providing high quality aural and visual service in limited band width settings. The committee views standardization as essential for lowering the cost of solutions intended for low-band width consumer devices.

**5.6 Stakeholders for the Standard:** -Audio and video products (hardware or software) manufacturers or vendors  
-Aural and visual content providers  
-Video and audio service providers, including broadcasting operators, Internet video service providers

---

**Intellectual Property**

**6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** No

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No

---

**7.1 Are there other standards or projects with a similar scope?:** No

**7.2 Joint Development**

**Is it the intent to develop this document jointly with another organization?:** No

---

**8.1 Additional Explanatory Notes (Item Number and Explanation):** IEEE SA P1857-video codec  
IEEE SA P1857.2 - audio codec,