

# P1857.7

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**Submitter Email:** [wgao@pku.edu.cn](mailto:wgao@pku.edu.cn)  
**Type of Project:** New IEEE Standard  
**PAR Request Date:** 21-Oct-2014  
**PAR Approval Date:** 10-Dec-2014  
**PAR Expiration Date:** 31-Dec-2018  
**Status:** PAR for a New IEEE Standard

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**1.1 Project Number:** P1857.7  
**1.2 Type of Document:** Standard  
**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Adaptive Streaming

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

**Contact Information for Working Group Chair**

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

**Contact Information for Sponsor Chair**

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 06/2015

**4.3 Projected Completion Date for Submittal to RevCom:** 02/2016

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

**5.2 Scope:** This standard specifies the media presentation description format and media segment format for dynamic and adaptive streaming over networks such as HTTP. Particularly, the specified formats support multi-stream synchronization, content protection, content authentication, and client behavior control.

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

**5.4 Purpose:** This standard specifies the formats of media presentation description and media segment for dynamic and adaptive streaming over networks such as HTTP, with highlighted features of multi-stream synchronization, content protection, content authentication and client behavior control. The target applications and services include but are not limited to Internet video, on-demand and live streaming.

**5.5 Need for the Project:** HTTP streaming has become a popular approach for delivering of multimedia content over Internet. A standard for HTTP streaming of multimedia content would allow a standard-based client to stream content from any standard-based server, thereby enabling interoperability required by the market and the industry of Internet Streaming.

**5.6 Stakeholders for the Standard:** Stakeholders being benefited include but are not limited to

- Media content creators
- Media content service providers, including broadcasting operators, Internet video service providers
- Advertisement service providers

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**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

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**7.1 Are there other standards or projects with a similar scope?:** Yes

**If Yes please explain:** ISO/IEC JTC1/SC29 WG11 MPEG (motion picture expert group) has established a standard called DASH, which is short for Dynamic Adaptive Streaming over HTTP. MPEG DASH specifies the formats of media presentation description (MPD) and segment for adaptive delivery of MPEG media over HTTP. However, the standard does not take enough consideration in multi-stream synchronization, streaming media authentication and protection. The proposed PAR project highlights these new features, which are required by media content service providers.

**and answer the following**

**Sponsor Organization:** ISO/IEC

**Project/Standard Number:** ISO/IEC 23009-1

**Project/Standard Date:** 01-Apr-2012

**Project/Standard Title:** Information technology-Dynamic adaptive streaming over HTTP (DASH)-Part 1: Media presentation description and segment formats

**7.2 Joint Development**

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

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**8.1 Additional Explanatory Notes (Item Number and Explanation):**