

**INTERNATIONAL ORGANISATION FOR STANDARDISATION  
ORGANISATION INTERNATIONALE DE NORMALISATION  
ISO/IEC JTC1/SC29/WG11  
CODING OF MOVING PICTURES AND AUDIO**

**ISO/IEC JTC1/SC29/WG11 N14019  
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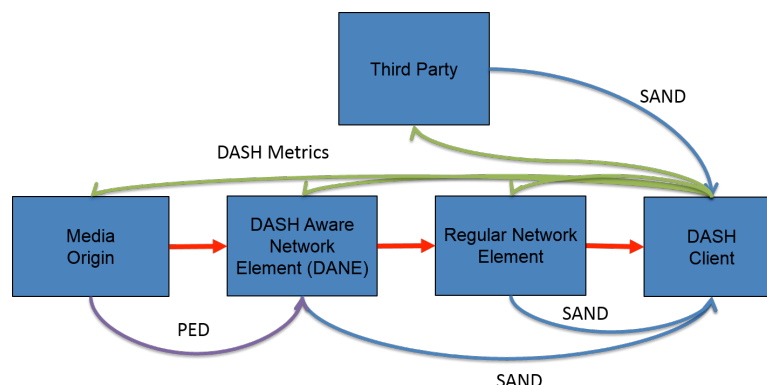
**Source: Convenor**

**Title: Liaison template on MPEG-DASH**

ISO/IEC JTC1/SC29/WG11 (MPEG) would like to inform you about the recent MPEG-DASH standard developments.

At our 106<sup>th</sup> meeting in Geneva, among others we have established two core experiments:

1. Server and Network assisted DASH Operation (SAND) Core Experiment: The objective of this core experiment is to support DASH Operations by server and network assistance. This core experiment includes defining:
  - o Parameters from a delivery network element to the DASH client to assist the client operation, provided through API or a protocol to the DASH client (SAND),
  - o Parameters from DASH client to network, uplink, which collect information about the DASH service and may be provided through API or a protocol (DASH Metrics),
  - o Parameters for enhancing delivery by a proxy, generated by the content author, provided from media server to any DASH Aware Network Element as part of the DASH formats or in an API/protocol (PED), and finally
  - o Signalling mechanism (Protocol/API) requirements at the first stage.



2. Signaling Intended Source and Display Characteristics (SIC) Core Experiment: Collecting parameters which allow signaling the intended source or display characteristics by the content author to the DASH clients such as intended resolution, aspect ratio and active display area, color space, continuity of display resolution cross multiple periods, as well as investigating signaling options to convey such parameters.

We would like to get your input on the above core experiments, particularly if you recommend any specific parameters.

We are also considering to define a new MPEG-DASH profile using the new features of ISO/IEC 23009-1 2<sup>nd</sup> Edition. This draft profile is based on the existing ISO-BMFF Live and On Demand profiles, targeted for ad insertion functionality, as well as low-latency live streaming. In order to support just-in-time ad insertion, XLink is included in the new profile. Since there is little interest in multiplexed ISO-BMFF representations and they may lead to an unnecessary increase of operational and implementation complexity, multiplexed representations are excluded from the draft profile. Note that all existing 1st edition (ISO/IEC 23009-1:2012) profiles were not changed in the 2nd edition. We would like to get your feedback on the above draft profile and any input you might have on new profiles for ISO/IEC 23009-1 2<sup>nd</sup> Edition.

We are also interested in collecting additional test material suited for conformance. We would be happy to consider any material you would like to contribute. Note that any audio or video content and other intellectual property contained in test vectors must be conveyed with appropriate copyright grants, e.g. public domain or Creative Commons grant of use for unrestricted test usage (permission for commercial resale is not required).

For your information, our future meetings are:

- The Ad-hoc group meeting: January 12<sup>th</sup>, San Jose CA, USA
- The 107<sup>th</sup> MPEG meeting: January 13-17<sup>th</sup>, San Jose CA, USA