

Number: L201827A

Subject: Liaison to 3GPP SA4 on DASH APIs

From: **DASH-IF**
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To: **3GPP**
3GPP Liaisons Coordinator <3GPPLiaison@etsi.org>

Date: 07-Jul-2018

Attachments "DASH Application's Event Processing Model" – slide set produced by the DASH-IF.

Dear 3GPP SA4 Experts,

The DASH-IF wishes to respond to 3GPP SA4 on your question posed in the LS sent to DASH-IF in document S4-180546, from your April 2018 meeting, as well as inform SA4 on the current status of our ongoing *DAInty* (DASH APIs for Interactivity) work item, towards fulfilling the requested support from 3GPP.

The aforementioned SA4 LS contains the following statement and associated question: *"On the first question, SA4 has decided that the DASH API for enabling application access to the timed Web Asset track (now referred to as timed Web Resources track in ISO/IEC CD 23001-15) is indeed not needed. Instead, and based on ongoing work in MPEG, we have recognized the potential usefulness of application access to a Timed Metadata Track providing similar functionalities as an Event Stream, and would ask DASH-IF to define such DASH API if DASH-IF believes that the Timed Metadata Track represents an alternative carriage mechanism for sparsely timed events."*

While DASH-IF cannot at this time provide a formal answer, this is one of the topics in our work plan associated with the *DAInty* work item. For example, we are looking at related work in the HbbTV on the mapping of DASH Event Stream messages to the HTML <track> element, and specifically, the use of the *TextTrack* object and related cueing mechanisms. We will provide further response to 3GPP in the future as we progress this study.

In addition, please note that DASH-IF's initial focus in the work item is on the Event API. To attain a clear understanding of the appropriate methods and parameters for such API, we've performed an analysis on the Event processing model by DASH client with regards to interactivity-related Events. This activity is near completion, and we are sharing our work in progress findings in the attached slide set "DASH Application's Event Processing Model". We would ask 3GPP SA4 to review the document and provide to DASH-IF any comments or



questions. In particular, we would like to know whether SA4 agrees with the assumptions and recommended procedures described in the document, since these will represent the blueprint for the Event API specification.

Next Meeting:

- DASH-IF #19 Face 2 Face

Dec 4-5, 2018, San Diego, CA, USA

Regards,
William Frantz
DASH-IF Liaison Officer