

Media-Timed Events Task Force

Progress in 2018

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Original Goals

- Survey existing methods for media-timed events
 - DASH
 - HbbTV
 - W3C
 - TTML/WebVTT
 - Datacue
 - Emerging
 - MPEG work item on web track
 - DASH-IF work on Eventing API (“DAInty”)
- Survey guidelines for rendering of timed metadata
 - Is “Time marches on” good enough?

Impetus: In-band/Out-of-band events – DASH approach

- DASH events are timed actions that are meant to take place in conjunction with media playout
- DASH events may be conveyed via
 1. The MPD (Media Presentation Description) Document
 - The EventStream fragment
 2. The 'emsg' box in the ISO BMFF media track
 - In-band event
- Neither mechanism is well-suited for HTML5
 - MPD eventing requires the application (HTML/JS) to execute the events as per media playback time
 - Application may not have time-accurate insight into media playback status
 - emsg eventing support is non-existent in current browsers
 - Even if browsers propagated emsg data into JS, the event handler in the application can become a bottleneck

Status

- Current group recommendations can be found at <https://w3c.github.io/me-media-timed-events/>
- Have made one solid recommendation to WICG
 - Regarding DataCue and 'emsg' events (ISO BMFF)
 - <https://discourse.wicg.io/t/media-timed-events-api-for-mpeg-dash-mpd-and-emsg-events/3096>
 - Allows for a type of metadata cue ("datacue") for typed data
- Open issues
 - How to handle metadata-only tracks or the planned MPEG web track
 - New API surface for timed events
 - e.g. ongoing work in DASH-IF

Ways Forward

- Publish existing document as IG note?
- Continue TF to begin collaboration with WICG?