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?