

Media Pipeline Teleconference Notes

04 August 2011

Chair

Clarke Stevens (Cablelabs)

Attendees

Duncan Rowden (BBC)
Bob Lund (Cablelabs)
Clarke Stevens (Cablelabs)
Mark Vickers (Comcast)
Nilo Mitra (Ericsson)
Narm Gadiraju (Intel)
Giuseppe Pascale (Opera)
Russell Berkoff (Samsung)
Tatsuya Igarashi (Sony)
Hiroyuki Aizu (Toshiba)
Shunichi Gondo (Toshiba)
Francois Daoust (W3C)
Kazuyuki Ashimura (W3C)

Scribe

Russell Berkoff (Samsung)

Agenda

Clarke:

http://www.w3.org/2011/webtv/wiki/MPTF/Agenda_Telco_4th_August_2011

Clarke: Continue review of use cases

Clarke: Video support of MPEG transport

<scribe>Review of Last Call bugs</scribe>

Topic: ISSUE-37 - Viewport support for video (Duncan)

Clarke: ISSUE 37 - Viewport support for video (Duncan)

Duncan: For broadcast, video is handled via mosaic

Bob: Can provide input focus?

Duncan: Yes

Bob: Are there other aspects of control?

Duncan: Mosaic is transmitted as a picture

Clarke: Mosaic not composed on client side?

Duncan: Correct - Client would select part of picture provided by server

Clarke: Could select part of picture to provide audio for?

<scribe> I recall answer was no??</scribe>

Clarke: Comments?

Francois: Sounds like mosaic are user interfaces. How to make it a good user interface such as providing animations for zoom operations. Provide offsets for horz, vertical viewport. Provide styling.

Duncan: May not always need to provide animation. May just need to switch between viewports w/o animation.

Francois: May want to draw border around tiles. Possibly overlay canvas?

Bob: Lot of this already exists using <map>. Let you break component into images and apply styling? Don't have capability to select portion of video and provide styling.

Narm: Does map also allow regions of map to have styling?

Bob: Map doesn't provide this. Animations would need to be overlaid. Map doesn't provide manipulation of image.

Francois: Map is restricted to image tag. Need to extend to <video> element.

Clarke: Need to see if this can be done with existing facilities.

AR: Duncan - See if this can already be done with existing facilities

Topic: ISSUE-18 – Video tag support of MPEG2-TS

Clarke: Asked for Jan Lindquist - <scribe>Not on call</scribe>

Clarke: Jan took video use case see if this can be done using existing use case see ISSUE-18 in HNTF

Clarke: 35 elements in ISSUE data base

<scribe>Some discussion of sharing Track database between WebTV TFs</scribe>

Clarke: Request for Jan to restate use case as new issue

AR: Jan summarize ISSUE-18 as new use-case

Topic: ISSUE-35 Continuous Streaming

<scribe>Some difficulty identifying speakers</scribe>

Clarke: Continuous streams

Clarke: Does encoding of TV channels [consist of] continuous stream with time-coding?

Clarke: Alternative multiple segments with time-stamps, starting at 0 for each segment.

Clarke: Need to be able to sync adverts with underlying stream.

Bob?: May be media encoding requirements. Encoders normalize time into single time base.

Clarke: Does W3C need to do anything? Is this out of scope.

Mark?: HTML5 provides support for multiple audio video specifically. Specify one of resources as master and sync other streams to it.

Bob: May have specific use cases not accommodated? For a stream time starts at zero and increases. Timestamps may wrap but only after long time.

Clarke: Will keep issue open for additional comments. Probably do not need new use-case.

Kaz: Even if use-case is covered. May want to keep this in UC document. Maybe in separate section. <scribe>Post topic - Was on mute</scribe>

Topic: HTML5 Last Call Bugs (13333 13357 13358 13359 13625)

Clarke: HTML5 last call bugs.

Clarke: Two last-call bugs. Request update on bugs. Anything for MPTF to do?

Mark: Five bugs that have been submitted. One rejected/closed with escalation 13333

Mark: [Remaining:] 13357 13358 13359 13625 no action / discussion

Clarke?: Suggest supporting bugs

Clarke: Suggest going through bugs

Bob?: 13358 - Event needed to signal change in track for media resource. LP media streams.

Bob?: Today you can multiple video, audio tracks with single event. UA fires event indicating all tracks are available, but no event when tracks available change. UA should detect [this] event.

Clarke: Any objections to bug? MPTF to support bug.

Francois: Generic question: What does MTPF endorsement mean?

Clarke: Acknowledges Web & TV indicates bug is important. Up to HTML5 to pick solution/

Francois: <scribe>Missed comment</scribe>

Kaz: Talked to domain leader. Review period ends on Aug 3 yesterday. WG won't accept comments after this period but will accept comments for following period.

Kaz: Endorsement not relevant but comments are relevant.

Giuseppe: Send message to HTTP group that MPTF considers issue important.

Giuseppe: Bugs were submitted before deadline so all bugs are approved for LastCall_1. Can send message to list.

Bob: Review last two bugs.

Bob: 13359 Way need to id type of data in track element.

Bob: Way to carry captions subtitles, metadata without defined type to be acted upon by JS.

Bob: North American Cable plans ETV Signaling to sync

application with video/audio. Can provide more info by clicking video.

Bob: Text track today does not id type of data in track. In the case of captions, format of caption can vary by region.

Bob: All that is exposed that there is a caption. Need to sniff content to detect type of caption data.

Giuseppe: Was this by design? Use mimetype to detect type of data.

Bob: For in-band tracks there are no mimetypes available. For metadata tracks can have different types of tracks.

Bob: Tells format of track rather than format of metadata. Can have add-insertion opportunities.

Giuseppe: For out-of-band case need to define type

Bob: Request to provide mimetype for track?

Giuseppe: Both User Agent and application deals with data types?

Bob: User Agent needs to know type anyway. Use-case is for a user-script rather than User Agent?

Francois: Type attribute is a hint for the application.

Bob: Bug may not be clearly worded. Request to add mimetype for out-of-band tracks. Generated by User-Agent for in-band tracks.

?: May not be useful to add type attribute. Up to HTML5 WG?

Clarke: Any objections to endorsing bug.

<scribe>None</scribe>

Bob: 13625 - Alternate mechanism for 13333. Comment on 13333 question on real world use-case.

Bob: No way to pass AV metadata to User Agent for playback. Problem statement identifies HTML5 User Agent need additional info for Home Network content.

Bob: Mimetype, @protocolInfo, @linkprotection

Bob: User Agent needs info to undo link protection before playback. Also size of content.

Bob: Third [is] metadata is for protection (DRM scheme). Mimetype may signal content protection but may need additional metadata for content protection.

Bob: May be applied to other content types. Proposed solution to add 3 new attributes to <video>, <audio> element to pass this metadata info.

Kaz: May need additional information in future. May need more general attribute scheme.

Bob: May have other metadata type in future. May be better to have single attribute containing additional metadata?

Kaz: Content-feature may contain arbitrary information.

Mark: May want to add to 13625?

Giuseppe: May want to use different method? Pass parameters as strings. GetUserMedia (<scribe>method?</scribe>).

Bob: How is this data conveyed to User Agent?

Clarke: Endorse bug as a concern, rather than particular solutions.

AR: Chairs to draft message to indicate we are interested in outcome of these bugs.

Clarke: Address table on next call

AR Summary

AR: Duncan - See if this [ISSUE-37] can already be done with existing facilities

AR: Jan - Summarize ISSUE-18 as new use-case

AR: Chairs - to draft message to indicate we are interested in outcome of these [Last Call] bugs.