

W3C Media WG Meeting

TPAC 2022, 16 September 2022 14:00 - 18:00



Safety reminders

While attending TPAC, follow the health rules:

- Authorized masks are required indoors at all time (no exceptions). If you need to remove your mask during the meeting, keep it short
- Daily test is expected

Respect each other's needs for physical distancing and other accommodations or precautions due to health concerns

<https://www.w3.org/2022/09/TPAC/health.html>

Code of conduct

- Appreciate and accommodate our similarities and differences, be inclusive
- Have empathy when discussing sensitive issues
- Treat everyone with respect
- Be honest, be truthful
- Be aware of how much time is taken up
- Be sensitive to language differences
- Respect confidentiality and privacy

Refer to <https://www.w3.org/Consortium/cepc/>

Meeting logistics

- We use IRC for minute taking and to manage the speaker queue. Please join <https://irc.w3.org/?channels=#mediawg>
 - Type **present+ Your_Name** to record your attendance
 - Type **q+** to join the speaker queue
- Please volunteer to scribe
 - See IRC Guide: <https://www.w3.org/wiki/IRC>
- Zoom remote participants, please mute unless you're speaking
- Please avoid side conversations in the meeting room (those get picked up by microphones)

Agenda

Time	Topic
14:00 - 14:10	Welcome and Introduction (Chris Needham, Jer Noble)
14:10 - 15:00	MSE spec status, issues, and v2 feature prioritisation (Matt Wolenetz)
15:00 - 15:30	EME spec status and issues (Chris Needham, Xiaohan Wang, Greg Freedman, Joey Parrish)
15:30 - 16:00	Break
16:00 - 16:30	WebCodecs spec status and issues (Thomas Guilbert, Dan Sanders)
16:30 - 16:45	Autoplay Policy Detection issues (Alastor Wu)
16:45 - 17:30	Media Session issues (Chris Needham, Youenn Fablet, Frank Liberato, Tommy Steimel)
17:30 - 18:00	Document Picture in Picture API introduction (Frank Liberato, Tommy Steimel)

Media Working Group: Introduction

- **Mission**
 - The media foundations for the web, such as **HTMLMediaElement** and **Media Source Extensions** have helped turn the Web into a major platform for media streaming and media consumption. The Media Working Group will extend those foundations with new standardized technologies to improve the overall media playback experience on the Web.
- **Charter**
 - 22 July 2021 to 31 May 2023 ([previous charter](#) 22 May 2019 to 30 June 2021)
- **Co-chairs**
 - Jer Noble – Apple jer.noble@apple.com
 - Chris Needham – BBC chris.needham@bbc.co.uk
- **Team Contact**
 - François Daoust – W3C fd@w3.org

Media Working Group: Specifications

Specification	Status	Notes
Media Source Extensions v2	WD	Steps to get to CR?
Encrypted Media Extensions v2	ED	Steps to get to FPWD?
Media Capabilities	WD	Ready to progress to CR?
Media Playback Quality	ED	To be integrated into HTML (under WHATWG MoU)
Autoplay Policy Detection	WD	FPWD recently published
WebCodecs	WD	Transfer Registry to the W3C Registry track?
Media Session	WD	Ready to progress to CR?
Picture in Picture	WD	Ready to progress to CR? See #184

See also [Horizontal Review status document](#)

Media Source Extensions

14:10 - 15:00

- [w3c/media-source #100](#) Have appendBuffer and remove return promise - aka Promisification
- [w3c/media-source #232](#) Add garbage collection modes to SourceBuffer
 - Memory management, purging of media buffers, enable MSE in low memory environments
- [w3c/media-source #189](#) Add Support for Media-Encoded Events
 - Relates to WICG DataCue ([explainer](#))
- MSE v2 feature prioritisation and developer input
 - Open discussion

Encrypted Media Extensions

15:00 - 15:30

- Feature additions in scope of WG charter:
 - HDCP Policy Detection
 - Open issues: <https://github.com/WICG/hdcp-detection/issues>
 - TAG review says this is implemented in Chrome and FF
<https://github.com/w3ctag/design-reviews/issues/323> - spec status?
 - Encryption scheme capability detection (see [explainer](#))
 - encryptionScheme has been added to MediaKeySystemMediaCapability. Is there more to do? Implementation status?
 - A means to avoid creating duplicate sessions within the same origin (see [explainer](#) and [alternatives considered](#))
 - Does this supersede [w3c/encrypted-media #467](#)?

Encrypted Media Extensions

15:00 - 15:30

- [w3c/encrypted-media #499](#) Revisit the requirement to continuously run the "Monitor for CDM State Changes" algorithm
- [w3c/encrypted-media #484](#) Fail playback after long waiting for key
- [w3c/encrypted-media #466](#) Clarify behaviour around discarded browsing contexts and unloaded windows
- [w3c/encrypted-media #494](#) Define EME promise fulfill behavior on hardware context reset

Break

15:30 - 16:00

WebCodecs

16:00 - 16:30

- Current status, upcoming changes, where is input needed? (Dan Sanders, Thomas Guilbert)
- WebCodecs issues not covered in WebRTC joint meeting, from:
 - [w3c/webcodecs #405](#) Fixed audio chunk size support extension
 - [w3c/webcodecs #317](#) AudioEncoderConfig.latencyMode (or similar) extension
 - [w3c/webcodecs #270](#) Support per-frame QP configuration by VideoEncoder extension
- [w3c/webcodecs #398](#) Moving WebCodecs Registry to the W3C Registry Track
 - See [The Registry Track](#) in the W3C Process Document

Autoplay Policy Detection

16:30 - 16:45

- [w3c/autoplay #27](#) Relationship to Permission Policy
- [w3c/autoplay #30](#) Horizontal review status, following FPWD

Media Session

16:45 - 17:30

- Media Session and WebRTC
 - [w3c/mediasession #274](#) Should we add slide presentation specific actions?
 - Update WG on conclusion from editors' meeting, discuss next steps
 - [w3c/mediasession #285](#) The active media session might not be the only one being notified of actions
- [w3c/mediasession #277](#) Status of AudioFocus API
- [w3c/mediasession #228](#) Add a way of detecting which actions a UA supports
- [w3c/mediasession #271](#) Add new callActionHandler method
- Media Session and Web Audio
 - [w3c/mediasession #244](#) Work without an <audio> element
 - [w3c/mediasession #213](#) Does media session work with WebAudio?

Document Picture in Picture

17:30 - 18:00

- Introduction
 - <https://github.com/steimelchrome/document-pip-explainer/blob/main/explainer.md>
- Current status
- Q&A
- Next steps