W3C Media & Entertainment IG Meeting

TPAC 2023, 11 September 2023 09:30 - 13:00

Agenda

Date and time
11 September 2023, 09:30-13:00 (07:30-11:00 UTC)

IRC
https://irc.w3.org/?channels=#me

IRC Guide
https://www.w3.org/wiki/IRC

Code of Conduct
https://www.w3.org/Consortium/cepc/

Safety reminders

While attending TPAC, follow the health rules:

- Authorized masks are required indoors at all times. If you need to remove your mask during the meeting, please keep it short
- Daily test is expected

Please be aware of and respect the personal boundaries of your fellow participants

https://www.w3.org/2023/09/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=#me
  - 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	Time	Topic
9:30 - 9:40	Welcome and Introduction	11:30 - 11:50	TV application development (Chris Lorenzo)
9:40 - 10:40	CTA WAVE update (John Riviello) • HTML5 vs native streaming survey • Web Media API Snapshot	11:50 - 12:35	Timed Text Working Group Joint Meeting (Nigel Megitt)
10:40 - 11:00	CTA WAVE Streaming Media Test Suite (Louay Bassbouss)	12:35 - 12:50	Media WG updates • Spec issues for MEIG input
11:00 - 11:30	Break	12:50 - 13:00	Priorities for 2023-2024
		13:00	Close

Note: This is a draft, suggestions for alterations are welcome

Media & Entertainment Interest Group Introduction

- Co-chairs
  - Tatsuya Igarashi – Sony tatsuya.igarashi@sony.com
  - Chris Lorenzo – Comcast Christopher_Lorenzo@Comcast.com
  - Chris Needham – BBC chris.needham@bbc.co.uk

- Team Contact
  - Kazuyuki Ashimura – W3C ashimura@w3.org

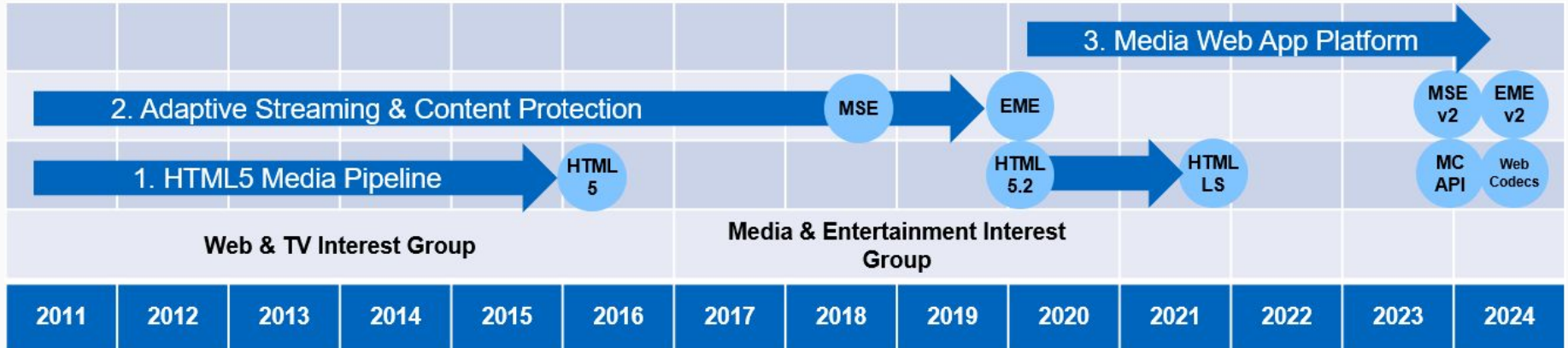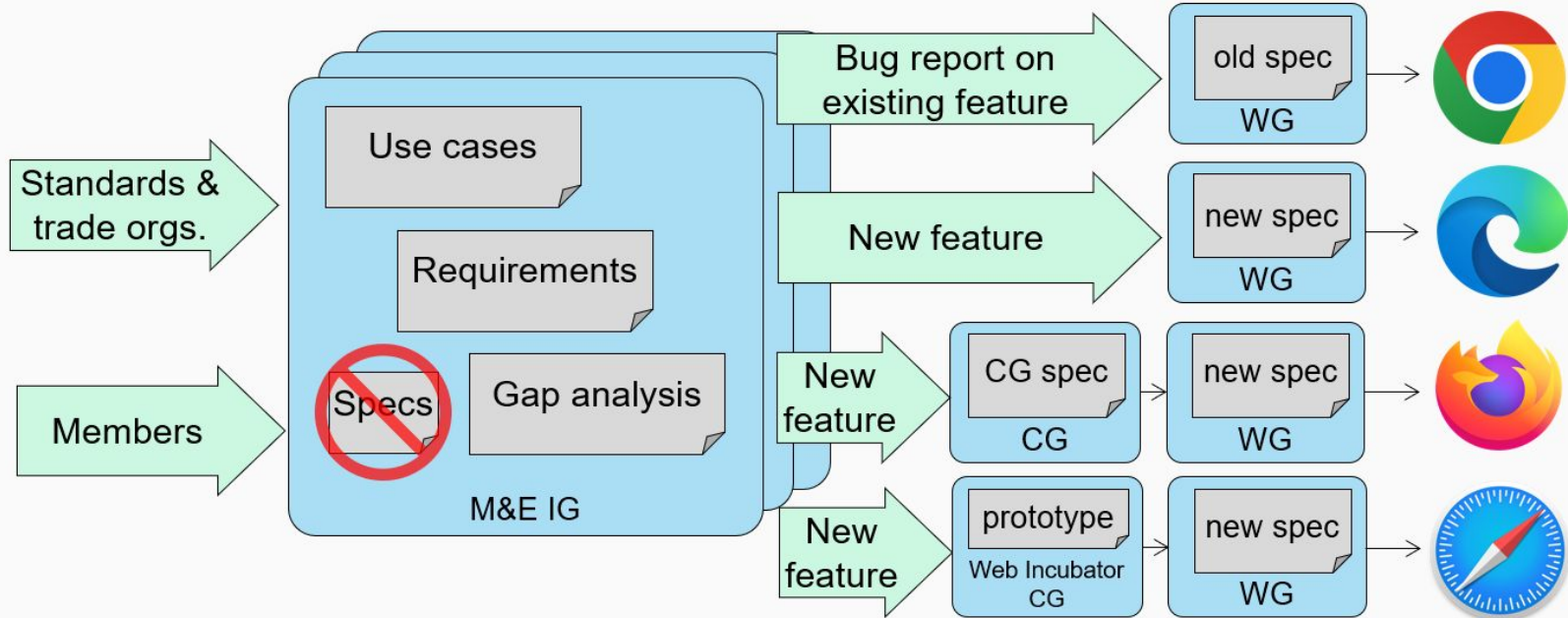# Media & Entertainment Interest Group Introduction

- Mission
  "To provide a forum for **media-related technical discussions**, to **track progress of media features on the web** within W3C groups and use of web technologies by external organizations, and to **identify use cases and requirements** that existing and/or new specifications need to meet to achieve **improved support of media services on the web**"

- Scope
  The Media and Entertainment Interest Group's scope covers Web technologies used in the **end-to-end pipeline** — including capture, production, distribution and consumption — of continuous experiences, which is here defined as **videos, sound recordings, associated technologies such as timed text, and input/output mechanisms** used to engage users

Charter: https://www.w3.org/2021/06/me-ig-charter.html

History of major initiatives

Workflow

Resources

- Homepage: https://www.w3.org/2011/webtv/
- Charter: https://www.w3.org/2021/06/me-ig-charter.html
- Proposed draft charter:
  https://w3c.github.io/media-and-entertainment/charters/charter-2023.html
- GitHub: https://github.com/w3c/media-and-entertainment
- Overview of Media Technologies for the Web: https://w3c.github.io/web-roadmaps/media/
- Mailing lists
  - Public: https://lists.w3.org/Archives/Public/public-web-and-tv/
  - Member only: https://lists.w3.org/Archives/Member/member-web-and-tv/

CTA WAVE Update
9:40 - 10:40

- HTML5 vs native streaming survey - see slides
- Web Media API Snapshot

CTA WAVE Streaming Media Test Suite
10:40 - 11:00

- Louay Bassbouss

Break

11:00 - 11:30

TV Application Development
11:30 - 11:50

- Do you build HTML apps for TV devices
- How many TV devices do you support?
- Need standards for how to get web apps onto TVs

https://github.com/w3c/media-and-entertainment/blob/master/app-development/charter.md

Timed Text WG Joint Meeting
11:50 - 12:35

- IMSC Hypothetical Render Model implementation
- Dubbing and Audio Description Profiles of TTML2 (DAPT)
- Text Track Cue proposal
- Other Topics TBC

Media Working Group Update
12:35 - 12:50

- Charter: https://www.w3.org/2023/06/media-wg-charter.html (June 2023 - May 2025)
- Specifications
  - Media Source Extensions v2
  - Encrypted Media Extensions v2
  - Media Capabilities
  - Autoplay Policy Detection - FPWD, implemented in Firefox
  - Media Playback Quality - Agreed to integrate into WHATWG HTML spec
  - WebCodecs - Implemented in Chrome, Edge, video support in progress in Safari
  - Media Session
  - Audio Session - Initial editor's draft. Added to WG charter scope, approved June 2023
  - Picture in Picture - Implemented in Chrome, Edge, Safari

Media Working Group: MSE v2

- Issues in scope for v2: https://github.com/w3c/media-source/milestone/8
- Worker support - implemented in Chrome, Edge
- changeType - implemented in Chrome, Edge, Firefox, Safari
- Managed Media Source - implemented in Safari. Discussions:
  - https://www.w3.org/2023/03/14-mediawg-minutes.html
  - https://www.w3.org/2023/06/13-mediawg-minutes.html
  - https://www.w3.org/2023/07/11-mediawg-minutes.html
  - https://www.w3.org/2023/07/25-me-minutes.html

- Are there other priority issues that MEIG or WAVE members want addressed?

Media Working Group: EME v2

- Spec status: Editor's Draft, First Public Working Draft expected 2023
- Issues in scope for v2: https://github.com/w3c/encrypted-media/milestone/5
- HDCP policy detection - implemented in Chrome, Edge, Safari
- Encryption scheme capability detection (cenc, cbcs) - implemented in Chrome, Edge, Safari
- Find existing sessions API - removed from charter scope

- Are there other priority issues that MEIG or WAVE members want addressed?

Media Working Group: Media Capabilities

- Implemented in Chrome, Edge, Firefox, Safari
- Issues that need MEIG / WAVE input:
  - [w3c/media-capabilities#99](#) Support for MPEG CMAF supplemental data
  - [w3c/media-capabilities#98](#) Support for MIME Type Profiles subparameter in order to support CMAF, etc.
  - [w3c/media-capabilities#157](#) Text tracks not supported
  - Video display capabilities
    - CSS includes [video specific media queries](#): video-color-gamut and video-dynamic range
    - [w3c/csswg-drafts#6891](#) Expose video plane pixel ratio

Priorities for 2023-2024
12:50 - 13:00

- Open questions to all
  - What are your priorities?
  - What changes or new technologies do you need?
  - What use cases are currently difficult to implement on the web?

Thank you!