Report from the TC39 Secretariat

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Overview

- Status Ecma approval timelines 2024

- New projects and members

- Solution for ES2023 PDF version

<u>Annex slides:</u>

- Invited Expert

- Code of Conduct

- List of latest relevant Ecma TC39 and GA documents

- Next TC39, GA and ExeCom meeting dates*

Timelines

- 60-day Opt-out period (*RF Policy*)
- 60-day Review Publication period

ECMA-262 15th edition – ECMAScript® 2024 Language Specification

- Status Closed: Opt-out review period 20 February 2024 to 20 April 2024
- Approval at GA 26-27 June 2024

ECMA-402 11th edition – ECMAScript® 2024 Internationalization API specification

- Status *Open*: Opt-out review period 24 April 2024 to 24 June 2024
- Approval at GA 26-27 June 2024

**Two approval possibilities at Ecma General Assemblies in June and December
(or letter ballot at any time in between upon GA approval)*

Projects:

- **New standard on CycloneDX Bill of materials specification**

  - *New TC54 Software and system transparency (Cyclone/DX)*

    - **Recorded meetings: OWASP CycloneDX - YouTube**

    - **Agenda: https://github.com/Ecma-TC54/meetings/tree/main/2024**

- New Proposal TC55 WinterCG (GA)

Pending New Members:

- JetBrains

Welcome New Members:

  - *Replay.io (SPC)*

  - *HeroDevs (SME)*

  - *Sentry (Functional Software) (AM)**

*Upon due reception on official stationery of the Applicant of this application the Secretary General admits Applicant, on a **provisory** basis and without voting rights, to participate in the work of any Ecma TCs. This admission is valid until the General Assembly of Ecma International decides on this application.*

PDF Reactor

- *Offers Java-based GUI*
- *Slow. Takes overnight to parse HTML and generate PDF*

Prince

- *command-line program*
- *Offers a book-specific version that has some extra features*
- *Fast. Impressively spec-compliant*

Antennahouse

- *Awkward interface*

Weasyprint

- *Lacks some important CSS Paged Media compliance features*
- *Slow for documents the size we produce*
- *Written in Python*

Paged.js

- *Still has some bugs and gaps in support the result in quite a bit of manual layout every year*

pdfChip

- *Dose not support CSS paged media*

Typeset.sh

- *Still too new to rely on*

Annex

- *Ecma Invited Experts shall be a very small number of experts, who are needed to complete the Ecma work and whose contributions are regarded as exceptionally important. They participate free of charge in the work of a TC (including face-to-face meetings) on invitation by Ecma in an Ecma TC and may contribute to an Ecma standard.*

- *With Ecma Invited Experts there is no intention whatsoever to introduce a non-paying individual membership category. Therefore, Invited Experts in Ecma work should be regarded as exceptional and rare. It is encouraged that instead of Invited Experts the company / organization with whom the invited expert is affiliated with (if he has such relationship) becomes Ecma Member itself.*

From Ecma Rules 6.2.6

- *Individuals can participate in the work of a TC as invited experts. They participate only at the invitation of the SG at the request of the TC. They have no voting rights. Invited experts shall comply with the Ecma policies and sign the appropriate form before participating. The invitation to participate may be withdrawn by the SG at any time.*

To ensure a fair and balanced standards process, to avoid communication issues and unhappiness, and to promote inclusiveness.

This Code of Conduct is enforced within all spaces managed by TC39. This includes chat rooms and forums moderated by TC39, issue trackers on projects hosted by TC39, and TC39 events and meetings.

We are a community of professionals, and we conduct ourselves professionally. Be kind to others. Do not insult or put down other participants. Harassment and other exclusionary behavior are not acceptable.

- *Be respectful*

- *Be friendly and patient*

- *Be inclusive*

- *Be considerate*

- *Be careful in the words that you choose*

When we disagree, try to understand why

(As a reminder….)

- GA documents provide general Ecma information (policy matters, activities of other TCs, liaison with other SDOs, etc.).

- GA documents are not automatically available to TC39 members. Ask your GA Representative for copy.

- Ecma TC39 documents are the "official" Ecma TC39 documentation within Ecma (both for "long-term archival" and as information to other Ecma TC and GA members).

- It is linked to TC39 as an Ecma TC (includes new formal Ecma members in TC39, status of ES20xx approval in Ecma etc.)

There are overlaps to what is also available on TC39 GitHub

- Ecma/TC39/2024/016		Report from the TC39 Secretariat, April 2024
- Ecma/TC39/2024/017		Slides and technical notes for the 101st TC39 meeting, April 2024 (Rev. 1)
- Ecma/TC39/2024/018		TC39 chair group's report to the ExeCom, April 2024
- Ecma/TC39/2024/019		Opt-out review period announcement for ECMA-402 (2024) draft Standard
- Ecma/TC39/2024/020		Final draft ECMA-262 15th edition
- Ecma/TC39/2024/021		Final draft ECMA-402 11th edition
- Ecma/TC39/2024/022		End of the opt-out review period for ECMA-262 (2024) Standard
- Ecma/TC39/2024/023		Venue for the 102nd TC39 meeting, Helsinki, June 2024
- Ecma/TC39/2024/024		Minutes of the 101st TC39 virtual meeting, April 2024
- Ecma/TC39/2024/025		Agenda for the 102nd TC39 meeting, Helsinki, June 2024

- Ecma/GA/2024/032   Opt-out review period announcement for ECMA-402 (2024) draft Standard

- Ecma/GA/2024/033   Final draft ECMA-421 2nd edition

- Ecma/GA/2024/034   Final draft ECMA-262 15th edition

- Ecma/GA/2024/035   Final draft ECMA-402 11th edition

- Ecma/GA/2024/036   Final draft ECMA-340 4th edition

- Ecma/GA/2024/037   Final draft ECMA-362 3rd edition

- Ecma/GA/2024/038   Final draft standard on "CycloneDX Bill of materials specification"

- Ecma/GA/2024/040   Opt-out review period announcement for CycloneDX Bill of materials specification Standard

- Ecma/GA/2024/041   End of the opt-out review period for ECMA-262 (2024) Standard

- Ecma/GA/2024/043   Minutes of the 101st TC39 virtual meeting, April 2024

- Ecma/GA/2024/045   Agenda for the 102nd TC39 meeting, Helsinki, June 2024

- Ecma/GA/2024/048-062   Minutes of the TC54 teleconferences

- Ecma/GA/2024/064   Minutes of the ExeCom meeting, Geneva, 24-25 April 2024

- Ecma/GA/2024/075   Draft scope for TC55: WinterTC

- Ecma/GA/2024/076   Draft PoW for TC55: WinterTC

TC39 Plenary schedule 2024

Meeting	Dates	Location	Host
102	2024-06-11 to 2024-06-13	Helsinki, Finland FI 🧸	Mozilla & Aalto University
103	2024-07-29 to 2024-08-01	Remote: "Los Angeles"	n/a
104	2024-10-08 to 2024-10-10	Tokyo, Japan JP 🌸	Sony
105	2024-12-02 to 2024-12-05	Remote: "Albuquerque"	n/a

- *6 meetings per-year*

- *3 remote, 3 hybrid (one US, one Europe, one Asia)*

- *Remote meetings are up to four days*
  ...and sometimes we rejoice when we can end early and claim a day back

- *In-person meetings are three days*
  ...to permit Monday/Friday as travel days

- **GA 127**: **26-27 June 2024** *(Geneva, Switzerland)*
- **GA 128**: **11-12 December 2024** *(US, TBD)*

ExeCom:

- **2-3 October 2024**, *(Geneva, Switzerland)*

Starting at 13:00. TC Chairs are invited to report on their activities.

Recommendations:

- "Summary and Conclusion" of each contribution at the plenary meeting should be included both in the Minutes of the TC39 meeting and in the Technical Notes. It is needed for accurate meeting Minutes.

  - *It is also convenient for all to see the key points and next steps as agreed by the committee during the plenary meeting.*

- Ideally the "Summary and Conclusion" text should be completed at the plenary with the support of the contributor and agreement of the committee.

- **ECMA-262** is authored on GitHub in a plaintext source format **Ecmarkup**.

  - *Ecmarkup is an HTML and Markdown dialect that provides a framework and toolset for authoring ECMAScript specifications in plaintext and processing the specification into a full-featured HTML rendering that follows the editorial conventions for this document.*

  - *Ecmarkup builds on and integrates a number of other formats and technologies including Grammarkdown for defining syntax and Ecmarkdown for authoring algorithm steps.*

- **ECMA-262** is currently published in **interactive html** and in a **book-like PDF format**. The yearly download of the PDF version is between 30-40K

  - *html format is built in the process*

  - ***PDF format** is a manual process*

- **ECMA-262** is in need of a solution to produce a **book-like PDF format**.

Thank you