

Report from the TC39 Secretariat

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Overview

- Vacant role of Ecma ExeCom
- Reminder for Ecma approval timelines 2024
- New Projects and New Members
- Invited Expert
- Code of Conduct
- Feedback on ES2023 PDF version solution

Annex slides:

- List of latest relevant Ecma TC39 and GA documents
- TC39 standards download and access statistics
- TC39 meeting participation statistics
- Next TC39, GA and ExeCom meetings

EXECUTIVE COMMITTEE:

- Chair: **Michael Saboff (Apple)**
- Members:

From the Ordinary members:

- ***Vacant (Nominations)***

From the Non-Ordinary members:

- **Touradj Ebrahimi (EPFL)**
- **Peter Hoddie (Moddable)**

ECMA-262 Approval Timelines:

- ExeCom 24-25 April 2024
- 60-day Opt-out period (*RF Policy*)
- 60-day Review Publication period
- *Reminder: mid-April to freeze specification*
- Approval at GA 26-27 June 2024
 - *ECMA-262 **15th** edition – ECMAScript® 2024 Language Specification*
 - Complete - Thank you
 - *ECMA-402 **11th** edition – ECMAScript® 2024 Internationalization API specification*
 - Pending

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

- New TC54 Software and system transparency (Cyclone/DX)
- New Proposal TC55 WinterCG (ExeCom)
- New TC39-TG5 - Experiments in Programming Language Standardization (Mozilla and University of Bergen)
- **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.*

- *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

For ES2024 and beyond a solution is needed

- *Feedback on the recommendations and procedures*
- *What are the next steps?*

Annex

(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/TC39/2024/009 Slides and technical notes for the 100th TC39 meeting, February 2024
- Ecma/TC39/2024/010 TC39 RF TC form signed by **Functional Software***
- Ecma/TC39/2024/011 Opt-out review period announcement for ECMA-262 (2024) draft Standard
- Ecma/TC39/2024/012 Venue for the 101st TC39 virtual meeting, April 2024
- Ecma/TC39/2024/013 Minutes of the 100th TC39 meeting, San Diego, February 2024 (Rev. 1)
- Ecma/TC39/2024/014 Agenda for the 101st TC39 virtual meeting, April 2024 (Rev. 1)
- Ecma/TC39/2024/015 Responses to the Ecma Contribution License Agreement (CLA), 28 March 2024

- Ecma/GA/2024/001 Ecma Web statistics for 2023
- Ecma/GA/2024/003 Agenda for the 100th TC39 meeting, San Diego, February 2024 (Rev. 1)
- Ecma/GA/2024/005 Application of HeroDevs for SME membership
- Ecma/GA/2024/006 TC39 RF TC form signed by HeroDevs
- Ecma/GA/2024/007 Application of Record Replay for SPC membership
- Ecma/GA/2024/008 TC39 RF TC form signed by Record Replay
- Ecma/GA/2024/012 Application of Functional Software for Associate membership
- Ecma/GA/2024/013 TC39 RF TC form signed by **Functional Software***
- Ecma/GA/2024/014 Opt-out review period announcement for ECMA-262 (2024) draft Standard
- Ecma/GA/2024/018 Minutes of the 100th TC39 meeting, San Diego, February 2024 (Rev. 1)
- Ecma/GA/2024/021 Agenda for the 101st TC39 virtual meeting, April 2024 (Rev. 1)

Top 5 Download Ecma Standards 1 Jan – 31 March 2024

Standard	(1 Jan-31 Mar)
•ECMA-262 ECMAScript Language Specification	5'356
•ECMA-404 The JSON Data Interchange Format	2'278
•ECMA-376 Office Open XML File Formats, all parts and editions	2'053
•ECMA-334 C# Language Specification	693
•ECMA-335 Common Language Infrastructure (CLI)	614
Total	10'994
Total Downloads - All Standards	15'148

TC39 Meeting Participation

Meeting 2023-2024	Total	Local	Remote	Companies
Jan2023 Remote	68	0	68	27
March2023 Seattle Hybrid	65	20	45	24
May2023 Remote	61	0	61	27
July2023 Bergen Hybrid	55	32	23	20
Sept2023 Toyko Hybrid	57	25	31	23
Nov2023 Remote	57	0	57	20
Feb2024 San Diego Hybrid	64	30	34	23
April2024 Remote				
June2024 Helsinki Hybrid				
July2024 Remote				
Oct2024 Toyko Hybrid				
Dec2024 Remote				

TC39 Plenary Schedule 2024

Meeting	Dates	Location	Host
101	2024-04-08 to 2024-04-11	Remote: "Baltimore"	n/a
102	2024-06-11 to 2024-06-13	Helsinki, Finland 	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 	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 dates and venue ExeCom dates and venue

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

ExeCom:

- **24-25 April 2024**, *Geneva*
- **1-2 October 2024**, *Geneva*

Starting at 9:00. 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 **Ecm Markup**.
 - *Ecm Markup 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.*
 - *Ecm Markup builds on and integrates a number of other formats and technologies including Grammarkdown for defining syntax and Ecm Markdown 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