

Report from the TC39 Secretariat

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Tokyo

Overview

- New projects
- ExeCom
- W3C TPAC 2024, Breakout Session

Annex slides:

- Invited Expert
- Code of Conduct
- List of latest relevant Ecma TC39 and GA documents
- Next TC39, GA and ExeCom meeting dates

Web-interoperable server runtimes: TC55 New proposal

Scope:

TC55 (Technical Committee on Web-interoperable Runtimes) shall define, refine, and standardize a minimum common API surface (along with a verifiable definition of compliance to that API) that is useful for improving interoperability across multiple ECMAScript environments which expand beyond web browsers. In addition, TC55 may standardize certain new APIs that do not overlap with existing web platform APIs, specifically for capabilities that are overwhelmingly relevant to non-browser ECMAScript environments. This group has a special focus on server environments for ECMAScript, but it may extend beyond that to other environments as well.

Programme of work:

Standardize and maintain a "minimum common API" consisting of a curated collection of standard interfaces, starting from (but not necessarily limited to) web standards, which form a common base to be supported by all "minimum common API compliant" environments, primarily targeted at ECMAScript server runtimes.

Standardize and maintain a clear and verifiable definition of what it means for an ECMAScript implementation to be "minimum common API compliant".

Collect and document the requirements of non-web browser "minimum common API compliant" environments as input/feedback to the development of other standards developed either elsewhere within Ecma or other relevant standards bodies, working groups, and community groups – in particular the W3C and WHATWG. These requirements may be published as Ecma Technical Reports.

As it becomes necessary, develop and standardize new APIs for implementation in "minimum common API" environments for particular capabilities which have requirements falling beyond the scope of existing web platform standards, in particular for capabilities that are more relevant to server side runtimes than web browsers. TC55 has a preference for pursuing all new APIs as web standards where feasible, rather than taking this path. Such new APIs may be considered part of the "minimum common API", but may also be published as independent standards.

Contacts: Chair group: Luca Casonato (Deno Land), Oliver Medhurst

Scope:

Standardization of the High-Level Shading Language (HLSL) as a cross platform and vendor-neutral programming language for data-parallel programming. This includes language syntax, semantics, libraries, and complementary technologies that support the language. This work intends not to use patents or if so, then only royalty free patents. To aid in achieving that objective, this TC is using the Royalty-Free Patent Policy.

Programme of work:

1. To develop the HLSL language standard and standard libraries for HLSL.
2. Upon completion of item 1, to investigate the future direction of the HLSL language standard.
3. To evaluate and consider proposals for future language and library features.
4. To develop test suites to verify the correct implementation of standards produced by this task group.
5. To establish and maintain liaison with appropriate other Ecma TCs and TGs, and with other standards bodies, industry consortiums, and developer communities including, but not limited to, ISO/IEC JTC1/SC22, The Khronos Group, and The LLVM Project.

Contacts:

Chair Chris Bieneman (Microsoft)

ExeCom:

- 22-23 October
- Chair's report for ExeCom
- Confirmation of TC Chairs, TG Convenors and Editors for the next year

- TPAC W3C Charm Offensive: huge success 😁
- Lots of interest among W3C staff and membership in collaboration—both passive (i.e. notification-only) and active
- Intl is a great low-hanging fruit! A couple of participants in both W3C I18N WG and TC39-TG2, a *lot* of overlapping concerns
- Too many conflicting breakout sessions! Missed multiple relevant ones 🤔
- WG chairs and Advisory Board are interested in TC39 & Ecma's opinions on decisions & ideas that impact the web and broader internet
 - What ideas do we have about improving sustainability? Energy, clean water, e-waste, etc
 - Where can we work with W3C staff to make security stronger? What about hardening user privacy?
- A diverse range of people are very curious and excited about TG5
- Endless conversations about horizontal reviews—generally within W3C but exploring a process for (optional) horizontal reviews with TC39 came up repeatedly too

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

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.

(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/TC39/2024/036 Report from the TC39 Secretariat, July 2024
- Ecma/TC39/2024/037 Responses to the Ecma Contribution License Agreement (CLA), 26 July 2024
- Ecma/TC39/2024/038 Minutes of the 103rd TC39 virtual meeting, July 2024
- Ecma/TC39/2024/039 Slides and technical notes for the 103rd TC39 meeting, July 2024 (Rev. 1)
- Ecma/TC39/2024/040 Venue for the 104th TC39 meeting, Tokyo, October 2024
- Ecma/TC39/2024/041 Agenda for the 104th TC39 meeting, Tokyo, October 2024

- Ecma/GA/2024/115
approval to form TC55
 - Ecma/GA/2024/116
 - Ecma/GA/2024/121
 - Ecma/GA/2024/127
 - Ecma/GA/2024/129
- Results of the postal vote on a clarification to the Ecma By-laws and the
- Minutes of the 103rd TC39 virtual meeting, July 2024
- Agenda for the 104th TC39 meeting, Tokyo, October 2024
- Ecma International Liaison highlights to JTC 1
- Venue for the 128th General Assembly, New York, December 2024

TC39 Plenary schedule 2024

Meeting	Dates	Location	Host
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

General Assembly:

- **GA 128: 11-12 December 2024** (NYC, USA)
 - **Host Bloomberg**
- **GA 129: 25-26 June 2025** (Geneva, Switzerland)
- **GA 130: 10-11 December 2025** (Hong Kong, TBD)

ExeCom:

- **22-23 October 2024**, (Geneva, Switzerland)
- **9-10 April 2025**, (Geneva, Switzerland)
- **8-9 October 2025**, (Geneva, Switzerland)

Starting at 09:00. TC Chairs are invited to report on their activities.

Thank you