Report from the TC39 Secretariat

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2026-01-20

112th TC39 Virtual Meeting: America/Port-au-Prince

Overview

- Approved GA December:
    - New standards and next editions
    - New TC
- New Work Item:
    - ArkTS Introduction
- Corrigendum

- Ecma Management 2026
- TC 39 Chairs and Editors
- Next Approval GA June
- Annex

Standards:

- ECMA-74 22nd edition – Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment

- ECMA-119 6th edition – Volume and file structure of CD-ROM for information interchange

- ECMA-424 2nd edition – CycloneDX Bill of materials specification

- ECMA-425 2nd edition – Statistical background correction for information technology and telecommunications equipment noise measurements

New Standards:

- ECMA-427 1st edition – Package-URL (PURL) specification

- ECMA-428 1st edition – Common Lifecycle Enumeration (CLE) specification

- ECMA-429 1st edition – Minimum common web API

- ECMA-430 1st edition – Natural Language Interaction Protocol (NLIP)

- ECMA-431 1st edition – Binding of the Natural Language Interaction Protocol (NLIP) over HTTP/HTTPS

- ECMA-432 1st edition – Binding of the Natural Language Interaction Protocol (NLIP) over WebSocket

- ECMA-433 1st edition – Binding of the Natural Language Interaction Protocol (NLIP) over AMQP

- ECMA-434 1st edition – Security profiles for Natural Language Interaction Protocol (NLIP)

New Technical Report:

- ECMA TR/113 1st edition – Explanatory guide to the Natural Language Interaction Protocol (NLIP)

New TC: Standardization of the High-Level Shading Language (HLSL)

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 will be chartered under the Ecma Royalty-Free Patent Policy.

Program of work:

- To develop the HLSL language standard and standard libraries for HLSL.

- Upon completion of item 1, to investigate the future direction of the HLSL language standard.

- To evaluate and consider proposals for future language and library features.

- To develop test suites to verify the correct implementation of standards produced by this task group.

- 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), Vice-Chair: Farzon Lotfi (Microsoft)

Secretaries: Aki Rose Braun (Ecma International) and Samina Husain (Ecma International)

Supporting members:

- *Microsoft, Meta, Google, Apple, Sony*
- *University of California Santa Cruz*

- ECMA-262 15th and 16th edition – ECMAScript® 2025 language specification
- ECMA-402 11th and 12th edition – ECMAScript® 2025 internationalization API specification

The corrigendum has been updated on the Ecma TC39 committee site with the correction:

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With:

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The Ecma GA appointed the 2026 Ecma Officers at the General Assembly on 10 December 2025.

MANAGEMENT:

- President: **Theresa O'Connor (Apple)**
- Vice-President: **Jochen Friedrich (IBM)**
- Treasurer: **Chis Wilson (Google)**

EXECUTIVE COMMITTEE:

- Chair: **Jochen Friedrich (IBM)**

From the Ordinary members:

- **Ayla Chang (Huawei)**
- **Andrew Paprocki (Bloomberg)**

From the Non-Ordinary members:

- **Peter Hoddie (Moddable)**
- **Mikhail Barash (University of Bergen)**
- **Patrick Dwyer (ServiceNow)**
- **Ross Kirsling (Sony Interactive Entertainment)**

Chair group:

- Chris de Almeida (**IBM**)
- Rob Palmer (**Bloomberg**)
- Ujjwal Sharma (**Igalia**)

Editors:

ECMA-262

- Kevin Gibbons (**F5Networks**)
- Shu-yu Guo (**Google**)
- Michael Ficarra (**F5Networks**)

ECMA-402

- Richard Gibson (**Agoric**)
- Ujjwal Sharma (**Igalia**)

ECMA-404 (JSON)

- Chip Morningstar (**Consensys**)

ECMA-262 Approval Timelines:

- ExeCom **31 March-1 April 2026**

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

- 60-day Review Publication period

- *Suggestion*: mid-March to freeze specification

- Approval at **GA 29-30 June 2026**
  - *ECMA-262 **17th** edition – ECMAScript® 2026 Language Specification*
  - *ECMA-402 **13th** edition – ECMAScript® 2026 Internationalization API specification*

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

Annex slides:

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

General Assembly:

- **GA 131:**   **29-30**   **June 2026** *(Geneva, Switzerland)*
- **GA 132**:   **8-9**   **December 2026** *(TBD)*

ExeCom:

- **31-1**   **March-April 2026**, *(Geneva, Switzerland)*
- **7-8**   **October 2026**, *(Geneva, Switzerland)*

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

Mtg num	First day	Last day	Location	Time zone	Host
112	2026-01-20	2026-01-22	Remote 💻	America/Port-au-Prince (UTC -5)	*n/a*
113	2026-03-10	2026-03-12	New York City	America/New_York (UTC -4)	Google
114	2026-05-19	2026-05-21	Amsterdam	Europe/Amsterdam (UTC +2)	JetBrains
115	2026-07-20	2026-07-23	Remote 💻	America/Eirunepe (UTC -5)	*n/a*
116	2026-09-29	2026-10-01	Tokyo	Asia/Tokyo (UTC +9)	Sony Interactive Entertainment
117	2026-11-30	2026-12-03	Remote 💻	Pacific/Easter (UTC -6)	*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

(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).

- These are linked to Ecma (includes new Ecma members in TC39, status of ES20xx approval in Ecma etc.).

There are overlaps to what is also available on TC39 GitHub

- Ecma/TC39/2025/040 — Slides and technical notes for the 110th TC39 virtual meeting, September 2025 (Rev. 1)
- Ecma/TC39/2025/041 — TC39 chair group's report to the ExeCom, October 2025
- Ecma/TC39/2025/042 — Corrigendum 1 to ECMA-262 16th edition (correction of the copyright notice)
- Ecma/TC39/2025/043 — Corrigendum 1 to ECMA-402 12th edition (correction of the copyright notice)
- Ecma/TC39/2025/044 — Minutes of the 110th TC39 virtual meeting, September 2025
- Ecma/TC39/2025/045 — Venue for the 111th TC39 meeting, Tokyo, November 2025
- Ecma/TC39/2025/046 — Agenda for the 111th TC39 meeting, Tokyo, November 2025 (Rev. 1)
- Ecma/TC39/2025/047 — Final corrigendum 1 to ECMA-262 and ECMA-402 for 2024 & 2025
- Ecma/TC39/2025/048 — TC39 RF TC form signed by Socket
- Ecma/TC39/2025/049 — Report from the TC39 Secretariat, November 2025 (Rev. 1)
- Ecma/TC39/2025/050 — Responses to the Ecma Contribution License Agreement (CLA), 14 November 2025
- Ecma/TC39/2025/051 — Slides and technical notes for the 111th TC39 meeting, Tokyo, 2025 (Rev. 1)
- Ecma/TC39/2025/052 — Minutes of the 111th TC39 meeting, Tokyo, November 2025

- Ecma/GA/2025/162 Proposed changes to the Ecma By-laws
- Ecma/GA/2025/163 Application of Chicago State University for NFP membership
- Ecma/GA/2025/164 TC56 RF TC form signed by Chicago State University
- Ecma/GA/2025/165 Membership & financial report to the GA, December 2025
- Ecma/GA/2025/166 Treasurer's Report to the GA
- Ecma/GA/2025/167 TC54 RF TC form signed by HeroDevs
- Ecma/GA/2025/168 Minutes of the TC54 teleconference of 16 October 2025
- Ecma/GA/2025/169 Informal liaison report to ISO/TC 159/SC 4 on noise figures in human factors standardization
- Ecma/GA/2025/170 Ecma recognition and Fellow award policy
- Ecma/GA/2025/171 Minutes of the 134th virtual meeting of TC20, 27 October 2025
- Ecma/GA/2025/172 Approved Resolutions of the 10-14 November 2025 JTC 1 Plenary in Chengdu, China
- Ecma/GA/2025/173 List of NFP members for 2026
- Ecma/GA/2025/174 Agenda for the 130th General Assembly, Geneva, December 2025 (Rev. 3)
- Ecma/GA/2025/175 Proxy form and voting Intentions for the 130th General Assembly, Geneva, December 2025 (Rev.1)
- Ecma/GA/2025/176 Minutes of the TC56 teleconference of 4 November 2025
- Ecma/GA/2025/177 Minutes of the TC53 teleconference of 19 November 2025
- Ecma/GA/2025/178 Minutes of the TC45 teleconference of 20 November 2025
- Ecma/GA/2025/179 Report from the Ecma Secretariat, December 2025
- Ecma/GA/2025/180 OFE proposal for MSP working Group on IT standardisation and Regulation 1025/2012
- Ecma/GA/2025/181 Update on the revision of Regulation 1025/2012 on European standardisation

- Ecma/GA/2025/182   Forming TC5x: Standardization of the High-Level Shading Language (HLSL)
- Ecma/GA/2025/183   Status of possible new work areas, December 2025
- Ecma/GA/2025/184   Minutes of the ExeCom meeting, Geneva, 7-8 October 2025 (Rev. 1)
- Ecma/GA/2025/185   ITMA summit 2025 IOT market
- Ecma/GA/2025/186   Ecma presentation to ITMA, November 2025
- Ecma/GA/2025/187   Minutes of the TC54 teleconference of 13 November 2025
- Ecma/GA/2025/188 developments   Reply liaison from Ecma TC51 to ISO/IEC JTC 1/SC 6 on NFC and iTAP
- Ecma/GA/2025/189   Minutes of the 50th meeting of TC51, Tokyo, 26 November 2025
- Ecma/GA/2025/190   End of the opt-out period for TC56 new standards
- Ecma/GA/2025/191   End of the opt-out period for TC54 standards
- Ecma/GA/2025/192 specification"   End of the opt-out period for the TC55 standard "Minimum common web API
- Ecma/GA/2025/193   Minutes of the TC51 teleconference of 8 December 2025
- Ecma/GA/2025/194   Minutes of the 141st meeting of TC31, Tokyo, November 2025
- Ecma/GA/2025/195   Minutes of the 111th TC39 meeting, Tokyo, November 2025
- Ecma/GA/2025/196   Minutes of the TC53 teleconference of 17 December 2025
- Ecma/GA/2025/197   Minutes of the TC54 teleconference of 11 December 2025

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 behaviour 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

- *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.*

Thank you