

Report from the TC39 Secretariat

István Sebestyén

2023-03-15

What has happened lately? A few points:

Since the January 2023 TC39 Meeting

- *List of latest relevant TC39 and Ecma GA documents*
- *Request for short summaries for TC39 meeting contribs.*
- *Status of TC39 meeting participation*
- *TC39 standards download and access statistics for 2022*
- *Status of ES2023 approval*
- *TC39 2023 Chairteam election*
- *Reminder: JTC1 Periodic Review of fast-tracked TC39 Standards*
- *Next TC39, GA and ExeCom meetings*

- **Ecma/TC39/2023/004** **MP4 file "Report from the TC39 Secretariat, January 2023"**
- **Ecma/TC39/2023/005** **Slides for the 94th TC39 meeting, January 2023**
- **Ecma/TC39/2023/006** **Venue for the 95th TC39 meeting, March 2023**
- **Ecma/TC39/2023/007** **Draft Standard ECMA-262, February 2023**
- **Ecma/TC39/2023/008** **Draft Standard ECMA-402, February 2023**
- **Ecma/TC39/2023/009** **Minutes of the 94th TC39 meeting, January 2023**
- **Ecma/TC39/2023/010** **Agenda for the 95th TC39 meeting, March 2023**

New relevant Ecma GA documents (2023)

- **Ecma/GA/2023/007 meeting, January 2023** **Minutes of the 94th TC39**
- **Ecma/GA/2023/009 meeting, March 2023** **Agenda for the 95th TC39**

-

Why are these lists of interest to TC39 members?

(just for reading as reminder....)

- **GA documents provide info about general Ecma matters (policy matters, what other TCs do, liaison with other SDOs, etc.). 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 into to other Ecma TC and GA members). It is an overlap of what is also available on GitHub, therefore less practically relevant to TC39 members)**

Request for a Short Summary of the Meeting Contributions - so far this is not working yet

- Actually it is a repeated complaint of non-TC39 Ecma Members about the length of TC39 Minutes (always over 150 pages – basically due to the attached Technical Notes)
- Separately we also publish in a separate ZIP file all the presentations of the TC39 meeting
- Would it be possible that for every presentation the author submits to the Ecma Secretariat (Patrick Charollais – Patrick@ecma-international.org and myself – Istvan@ecma-international.org a 1-2 paragraph summary of the contribution, that we would include in the main part of the minutes, with the “meeting resolution” for that topic? Reson: for a “fast reader” no need to dive into the “Tech Notes”.

TC39 Chairgroup Election 2023

- Following [the request for candidates](#), the proposed chair group for election in the forthcoming plenary is...
- **Proposed Chair Group**
- Chairs
- Chris de Almeida [@ctcpip matrix](#) (IBM)
- Rob Palmer [@robpalme matrix](#) (Bloomberg)
- Ujjwal Sharma [@ryzokuken matrix](#) (Igalia)
- **Facilitators**
- Brian Terlson [@bterlson matrix](#) (Microsoft)
- Justin Ridgewell [@jridgewell matrix](#) (Vercel)
- Yulia Startsev [@codehag matrix](#) (Mozilla)
- As noted previously, Brian and Yulia will be unavailable for the next ~6 months and so will resume duties when they return.
- **Election Process**
- [@codehag](#) has kindly agreed to conduct the election in the morning session of the next plenary meeting on Tuesday 21 March 2023. It will follow the regular [election process](#).
- The process begins by asking if there are any objections to electing the full set of candidates, enabling a swift resolution if there are no objections. If you believe you will have an objection and also will not have any delegates from your member organization attending (either remotely or in-person), please communicate this to [the chairs](#) in advance so that we can prepare the formal member ballot.

Recent TC39 Meeting participation

Meeting 2019-2021	Total	Local	Remote	Companies
July 19 Redmond	76	46	30	24
October 19 New York	70	46	24	26
December San Francisco	73	52	21	28
February 20 Honolulu	58	27	31	23
April 20 remote	73	0	73	28
June 20 remote	66	0	66	21
July 20 remote	76	0	76	28
Sept 20 remote	66	0	66	25
November 20 remote	62	0	62	22
January 21 remote	95	0	95	27
March 21 remote	80	0	80	25
April 21 remote	81	0	81	26

Recent TC39 Meeting participation (2)

Meeting 2021-2022	Total	Local	Remote	Companies
May 21 remote	74	0	74	27
July 21 remote	57	0	57	23
August 21 remote	80	0	80	28
October 21 remote	54	0	54	22
December 21 remote	69	0	69	24
January 22 remote	66	0	66	29
March 22 remote	92	0	92	30
June 22 remote	59	0	59	23
July 22 San Francisco "mixed"	62	19	43	24
September 22 remote	44	0	44	20
November 22 A Coruña "mixed"	62	19	43	23
January 2023 remote	68	0	68	27

Ecma pdf Standards download 2023 (TC39 Standards = 55%)

		Total Standards 2023	13058
1	ECMA-262	ECMAScript® Language Specification	4778
2	ECMA-404	The JSON Data Interchange Syntax	1972
3	ECMA-376	Office Open XML File Formats	1808
4	ECMA-334	C# Language Specification	677
5	ECMA-335	Common Language Infrastructure (CLI)	607
6	ECMA-74	Open XML Paper Specification	176
7	ECMA-388	Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment	196
8	ECMA-48	Control Functions for Coded Character Sets	167
9	ECMA-402	ECMAScript® Internationalization API Specification	141
10	ECMA-418	Psychoacoustic metrics for ITT equipment — Part 1 (prominent discrete tones) and Part 2 (models based on human perception)	181
11	ECMA-119	Volume and File Structure of CDROM for Information Interchange	93
12	ECMA-408	Dart Programming Language Specification	88
13	ECMA-420	Device interface information for high-speed collation using holographic optical correlation	29
14	ECMA-370	TED - ECO declaration	100
15	ECMA-414	ECMAScript® Specification Suite	105

ECMA-262 html Standards Access Statistics 2021 and 2022

ST-262 11th edition	2379
ST-262 12th edition	3401
ST-262 13th edition	13926
ST-262 14th edition	XXXXX

2023-03-01

ST-262 10th edition	12841
ST-262 11th edition	23405
ST-262 12th edition	52334
ST-262 13th edition	44281

2022

ECMA-402 html Standards Access Statistics 2021 and 2022

ST-402 7th edition	31
ST-402 8th edition	89
ST-402 9th edition	549
ST-402 10th edition	xxxx

2023-03-01

ST-402 6th edition	93
ST-402 7th edition	351
ST-402 8th edition	1994
ST-402 9th edition	1874

2022

Dates and locations of future meetings

Dates	Location	Host
2023-03-21 to 2023-03-23	Mixed: Seattle, US	F5
2023-05-15 to 2023-05-18	<i>Remote: "Chicago"</i>	
2023-07-11 to 2023-07-13	Bergen, Norway	University of Bergen
2023-09-26 to 2023-09-28	Tokyo, Japan	Bloomberg
2023-11-27 to 2023-11-30	<i>Remote: "SF"</i>	

- **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**

- **The following pages were presented twice at the TC39 meeting. These are here just as reminder, since the voting is still going on and is relevant.....**

- **JTC1 requires that every 5 years a Periodic Review of Fast-Tracked Standard takes place**
- **TC39 is involved in ECMA-404 (JSON = ISO/IEC 21778:2017) and ECMA-414 (ECMAScript® specification suite. 3rd edition, December 2017; ISO/IEC 22275: 2018)**
- **ECMA-404 is a very stable standard that actually would be ideal for JTC1 “stabilization”. Never a change...**
- **ECMA-414 contains “undated” normative references to ECMA-262 and ECMA-402. “Undated” means that it solves the problem of too “fast” and “frequent” updates of ES202x standards.**

- **In JTC1 SC22 is responsible to carry out the 5 years a Periodic Review of the Ecma TC39 standards**
- **ISO/IEC JTC 1/SC 22 Programming languages, their environments and system software interfaces is a standardization subcommittee of ISO/IEC JTC 1 that develops and facilitates standards within the fields of programming languages, their environments and system software interfaces.**
-

- **Membership of SC22:**
- **Secretariat: ANSI (USA)**
- **The 23 "P" (participating) members of ISO/IEC JTC 1/SC 22 are: Austria, Bulgaria, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Israel, Italy, Japan, Kazakhstan, Republic of Korea, Netherlands, Poland, Russian Federation, Slovenia, Spain, Switzerland, Ukraine, United Kingdom, and United States of America. They are obliged to vote.**
- **SC22 has also 21 "O" (observing) members. They may vote.**
- **Voting rule: Simple majority of those who have voted**

- **Structure: SC 22 has had a total of 24 working groups (WGs), many have been disbanded when the focus of the working group was no longer applicable to the current standardization needs.**
- **ISO/IEC JTC 1/SC 22 is currently made up of eight (8) active working groups: COBOL, Fortran, Ada, C, Prolog, C++, Programming Language Vulnerabilities, Linux Standard Base (LSB)**
- **ECMAScript in the Plenary only?**
- **We need lobbying where ever the vote on the periodic review takes place.**
- **Liaison person to SC22: Rex Jaeschke**

- ☐ *GA 125: 27-28 June 2023 (Tokyo, Japan, hosted by Amethystum or Geneva as a backup, TBD)*
- ☐ *GA 126: 5-6 December 2023 (US, TBD)*

ExeCom venue and dates

- ☐ 19-20 April 2023, Geneva, starting at 9:00. TC Chairs are invited.
- ☐ 5-6 October 2023, Geneva, starting at 9:00. TC Chairs are invited.

- **Thank You for your attention!**



**Rue du Rhône 114
CH-1204 Geneva
T: +41 22 849 6000
F: +41 22 849 6001**

www.ecma-international.org