

Report from the TC39 Secretariat

István Sebestyén

2022-11-22

What has happened lately?

A few points:

Since the September 2022 TC39 Meeting

- *List of latest relevant TC39 and Ecma GA documents*
- *Membership movements*
- *Status of TC39 meeting participation*
- *TC39 standards download and access statistics*
- *JTC1 Periodic Review of fast-tracked TC39 Standards*
- *Next TC39, GA and ExeCom meetings*
- *Some relevant results from the Oct. 22 ExeCom meeting*
- *Some news related to the upcoming Dec. 22 Ecma GA*

- **Ecma/TC39/2022/041 Slides for the 92nd TC39 virtual meeting, September 2022**
- **Ecma/TC39/2022/042 Minutes of the 92nd TC39 virtual meeting, September 2022**
- **Ecma/TC39/2022/043 TC39 chair group's report to the ExeCom, October 2022**
- **Ecma/TC39/2022/044 Venue for the 93rd TC39 meeting, November 2022**
- **Ecma/TC39/2022/045 Agenda for the 93rd TC39 meeting, November 2022**

- **Ecma/GA/2022/096** **Withdrawal of Coinbase from Ecma International**
- **Ecma/GA/2022/097** **Ecma International Liaison Highlights to JTC 1**
- **Ecma/GA/2022/099** **Minutes of the 92nd TC39 virtual meeting, September 2022**
- **Ecma/GA/2022/107** **Final drafts submitted to the 124th General Assembly, Geneva, December 2022 (Rev. 2)**
- **Ecma/GA/2022/108** **Membership class change of Microsoft**
- **Ecma/GA/2022/109** **Venue for the 124th General Assembly, Geneva, December 2022**
- **Ecma/GA/2022/110** **Minutes of the ExeCom meeting, Geneva, 5-6 October 2022**

- **Ecma/GA/2022/112** **Officers for 2023**
- **Ecma/GA/2022/114** **Ecma TC39 stenography request**
(Bloomberg)
- **Ecma/GA/2022/115** **Ecma flyer**
- **Ecma/GA/2022/116** **Status of possible new work**
areas, November 2022
- **Ecma/GA/2022/117** **Report from the Ecma**
Secretariat, December 2022 (Rev. 1)
- **Ecma/GA/2022/118** **Agenda for the 93rd TC39**
meeting, November 2022
- **Ecma/GA/2022/119** **Membership & financial report to**
the GA, December 2022
- **Ecma/GA/2022/120** **Treasurer's Report to the GA**
- **Ecma/GA/2022/121** **List of NFP members for 2023**

- **Ecma/GA/2022/122** **Request for GA confirmation of the extension of the Ecma SG's contract**
- **Ecma/GA/2022/123** **Report of the SG Selection Committee**
- **Ecma/GA/2022/124** **Curriculum vitae of the candidate for the new Ecma Secretary General**
- **Ecma/GA/2022/125** **Agenda for the 124th General Assembly, Geneva, December 2022**
- **Ecma/GA/2022/126** **Voting Intentions form for the 124th General Assembly, Geneva, December 2022**
- **Ecma/GA/2022/129** **Legal liability of Ecma for publishing extensive (near verbatim) notes (Ecma Legal Counsel)**

Why are these lists of interest to TC39 members?

(for new TC39 members)

- **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)**

- **Some changes in the Ecma Membership for 2023:**
- **Withdrawal of Coinbase**
- **Downgrade to Associate Member:**
 - *Microsoft*
 - *Hitachi*

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

Ecma TC39 Standards download statistics 2022-09-01 (previous)

	Total ST 2022 all Ecma standards	57810
ECMA-262	ECMAScript® Language Specification	22456
ECMA-404	The JSON Data Interchange Syntax	8906
ECMA-402	ECMAScript® Internationalization API Specification	588
ECMA-414	ECMAScript® Specification Suite	428

ECMA-262 access and download statistics 2022-09-01 (previous)

ECMA-262htm (access)			ECMA-262 (download)	
ST-262 5.1 edition	40031 (???)		ST-262 5.1 edition	353
ST-262 6th edition	105102 (???)		ST-262 6th edition	1223
ST-262 7th edition	44774 (???)		ST-262 7th edition	225
ST-262 8th edition	20618		ST-262 8th edition	192
ST-262 9th edition	11063		ST-262 9th edition	217
ST-262 10th edition	7808		ST-262 10th edition	266
ST-262 11th edition	18881		ST-262 11th edition	2760
ST-262 12th edition	45677		ST-262 12th edition	11331
ST-262 13th edition	16234		ST-262 13th edition	4082
Total	120281+(???)			20649

ECMA-402 access and download statistics 2022-09-01 (previous)

ECMA-402htm (access)			ECMA-402 (download)	
ST-402 1st edition	6818 (???)		ST-402 1st edition	27
ST-402 2nd edition	2142 (???)		ST-402 2nd edition	8
ST-402 3rd edition	204		ST-402 3rd edition	7
ST-402 4th edition	301		ST-402 4th edition	9
ST-402 5th edition	180		ST-402 5th edition	6
ST-402 6th edition	60		ST-402 6th edition	8
ST-402 7th edition	297		ST-402 7th edition	54
ST-402 8th edition	1852		ST-402 8th edition	322
ST-402 9th edition	758		ST-402 9th edition	147
TOTAL	3652 + (???)			588

Ecma TC39 Standards download statistics 2022-11-16 (last)

	Total ST 2022 all Ecma standards	74902
ECMA-262	ECMAScript® Language Specification	28745
ECMA-404	The JSON Data Interchange Syntax	11747
ECMA-402	ECMAScript® Internationalization API Specification	786
ECMA-414	ECMAScript® Specification Suite	562

ECMA-262 access and download statistics 2022-11-16 (last)

ECMA-262htm (access)			ECMA-262 (download)	
ST-262 5.1 edition	51717		ST-262 5.1 edition	445
ST-262 6th edition	133909		ST-262 6th edition	1519
ST-262 7th edition	52549		ST-262 7th edition	299
ST-262 8th edition	28596		ST-262 8th edition	255
ST-262 9th edition	14119		ST-262 9th edition	272
ST-262 10th edition	11207		ST-262 10th edition	331
ST-262 11th edition	21877		ST-262 11th edition	2848
ST-262 12th edition	50076		ST-262 12th edition	12399
ST-262 13th edition	34570		ST-262 13th edition	8005
Total	398620			26373

ECMA-402 access and download statistics 2022-11-16 (last)

ECMA-402htm (access)			ECMA-402 (download)	
ST-402 1st edition	8939		ST-402 1st edition	35
ST-402 2nd edition	2778		ST-402 2nd edition	12
ST-402 3rd edition	251		ST-402 3rd edition	9
ST-402 4th edition	362		ST-402 4th edition	11
ST-402 5th edition	215		ST-402 5th edition	8
ST-402 6th edition	81		ST-402 6th edition	16
ST-402 7th edition	330		ST-402 7th edition	56
ST-402 8th edition	1940		ST-402 8th edition	353
ST-402 9th edition	1475		ST-402 9th edition	286
TOTAL	16371			786

TC39 Plenary Schedule 2022

First Day	Last Day	Location	Host	Timezone	Days
2022-11-29	2022-12-01	A Coruña, Spain	Igalia	UTC+1	3

TC39 Plenary Schedule 2023

Here is the TC39 Plenary Meeting Schedule for 2023.

First Day	First Day	Last Day	Duration (days)	Location	Timezone	Host
Mon	2023-01-23	2023-01-26	4	Remote "Boston"	EST	n/a
Tue	2023-03-21	2023-03-23	3	Seattle, US	PDT	F5
Mon	2023-05-15	2023-05-18	4	Remote "Chicago"	CDT	n/a
Tue	2023-07-11	2023-07-13	3	Bergen, Norway	CEST	University of Bergen
Tue	2023-09-26	2023-09-28	3	Tokyo, Japan	JST	Bloomberg
Mon	2023-11-27	2023-11-30	4	Remote "SF"	PST	n/a

It is based on the same format and distribution that [we set for 2022](#). Meaning:

- **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**

- **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 124: 6-7 December 2022 (Geneva, Switzerland)*
- *GA 125: 21-22 June 2023 (Japan, TBD)*
- *It was noted that Amethystum offered to host the June GA in Tokyo.*
- *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.*

Some TC39 relevant News from the ExeCom Meeting in October

- **Ecma/GA/2022/110 Minutes of the ExeCom meeting, Geneva, 5-6 October 2022**
- **Activity report: TC39/2022/043**
- **Ujjwal Sharma reported about the work of TC39.**
- **Main relevant issues brought up:**
 - *Funding request for Notetaking (will be discussed at the December 22 GA)*
 - *non-violent communication (NVC) training remains unresolved ("the ball" is currently with the TC39 chairs).*
 - *TC39 is working on ES2023 and will have 6 meetings in 2023.*

Some selected issues on the agenda of the December 22 GA

- **Selection and appointment of New Ecma Secretary General (Selection Committee candidate: Ms. Samina Husain)**
- **2023 Ecma Management and ExeCom approval**
 - **As President:** **Jochen Friedrich (IBM)**
 - **As Vice-President:** **Daniel Ehrenberg (Bloomberg)**
 - **As Treasurer:** **Luoming Zhang (Huawei)**
 - **ExeCom Candidates:** **Management candidates (if not elected)**
Michael Saboff (Apple)
Waldemar Horwat (Google)
Touradj Ebrahimi (EPFL)
Peter Hoddie (Moddable)

- **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