

Minutes of the: **21st meeting of Ecma TC39**
held in: **Geneva, Switzerland**
on: **12 April 2006**

Chairman: Mr. J. Miller (Microsoft)
Vice-Chairman: Vacancy
Secretary: Mr. J. van den Beld (SG Ecma International)
Attending: Mr. M. Daumling (Adobe), Mr. J. Dyer (Adobe), Mr. B. Eich (Mozilla Foundation), Mr. R. Jaeschke (Microsoft), Mr. J. Jagger (JSL), Mr. T. Kurokawa (CSK Holding), Mr. N. Perry (University of Canterbury), Mr. T. Plum (Plum Hall), Mr. P. Sestoft (University of Copenhagen).
Excused: Mr. J. Marcey (Intel), Mr. E. Stapf (Eiffel Software)

1 Opening, welcome and roll call

The Chairman opened the meeting, with a special welcome to those attending for the first time.

2 Adoption of the agenda

The agenda was adopted without changes.

3 Approval of the minutes of the 20th meeting (2005/039)

The minutes were approved.

4 Matters arising not covered elsewhere

Mr. van den Beld presented a report on the status of the standardisation process in ISO/IEC JTC 1 and in Ecma, and their interworking. In particular issues being raised regarding the JTC 1 Fast-Track process were covered.

5 Reports / actions from TC39 Task Groups

5.1 Status report from Task Group 1: ECMAScript (2006/006)

Mr. Eich presented the report from TG1. The question was asked whether the (huge) test suite would be part of the Standard. General agreement was expressed that the test suite – often called reference or model implementation - should not be normative, but may be included as informative annex. Model semantics might become an informative annex. E4X will very likely not be included in the standard.

TG1 hopes to provide read-only access to the draft 4th Edition of the Standard in wiki form for public comment around June 2006. The target date for completion is June 2007.

5.2 Status report from Task Group 2: C# (2006/008)

Mr. Perry presented the report from TG2. TC39 unanimously agreed to submit the final draft for approval to the GA to become the 4th Edition of the C# Language Specification, ECMA-334. This edition has been fully synchronized with the unanimously approved 2nd Edition of ISO/IEC 23270.

Following this meeting TG2 will go in suspended animation.

5.3 Status report from Task Group 3: Common Language Infrastructure (2006/005)

Mr. Miller presented the report from TG3. TC39 unanimously agreed to submit the final draft for approval to the GA to become the 4th Edition of the CLI Specification, ECMA-335. This edition has been fully synchronized with the unanimously approved 2nd Edition of ISO/IEC 23271.

TC39 unanimously agreed to submit the final draft for approval to the GA to become the 4th Edition of the TR on CLI, ECMA TR/84. This edition has been fully synchronized with the unanimously approved 2nd Edition of ISO/IEC TR 23272.

TC39 unanimously agreed to submit the final draft for approval to the GA to become the 2nd Edition of the TR on CLI – Common Generics, ECMA TR/89. This edition has been fully synchronized with the unanimously approved 1st Edition of ISO/IEC TR 25438.

Following this meeting TG3 will go in suspended animation.

5.4 Status report from Task Group 4: Eiffel (2006/009)

Mr. van den Beld reported on behalf of TG4. TC39 unanimously agreed to submit the final draft for approval to the GA to become the 2nd Edition of the Eiffel Analysis, Design and Programming Language Standard, ECMA-367. This edition has been fully synchronized with the unanimously approved 1st Edition of ISO/IEC 25436.

TG4 plans to continue to develop the Eiffel language and work towards a future version of the Standard. TC39 congratulates TG4 on resolving the ISO comments in record time.

5.5 Status report from Task Group 5: CLI Binding for C++ (2006/007)

Mr. Plum presented the report from TG5. TG5 is facing significant issues raised during the ISO/IEC JTC 1 process. One problem is that the CLI Binding for C++ is marketed as an evolution of C++ as standardized by JTC 1/SC22 although, for example, the object models for the two languages are rather different. The standard uses terminology like 'language specification' instead of, for example, 'binding specification' which also does not help to prevent confusion. Changing the title of the standard, which is acceptable to TG5, is probably not enough to resolve the issues: also marketing and other issues may have to be considered. The outcome of the deliberations in JTC 1 is currently unclear.

Mr. Plum expressed as his view that a Fast-Track proposal should not be 're-done' in JTC 1 but should be judged on its technical merits, in accordance with the Fast-Track procedure that does not – on purpose - allow NO-votes on other than technical reasons. Also the JTC 1 NBs can get all sorts of information from Ecma during the development of the Fast-Track proposal. In particular in this case there have been many interactions between TG5 and SC22 during the 2-year development process: over 50 SC22 experts have been involved.

6 Any other business

Mr. Jaeschke reported that the next JTC 1/SC22 meeting will be held in the week of September 18th in London, UK. He will contact the Convenors of the TGs prior to the meeting for their latest reports. There will be no Fast-Track submissions from Ecma (TC39) on short term to JTC 1 that will be assigned to SC22.

7 Date and place of next meeting

1pm on Friday 13th October 2006 in Portland, Oregon. Date and time to be confirmed. If needed, the FtF meeting can be replaced by a teleconference.

'San José' was offered for the April 2007 meeting.

8 Closure

The chairman closed the meeting thanking Ecma for the meeting facilities and its hospitality.