TC39 Chairman's Report to:	*Coordinating Committee*
Written on:	*24 April 2006*
CC Meeting on:	*10-11 May 2006*

1 Officers

Chairman: Joel Marcey (Intel Corporation)

Vice-Chairman: Jim Miller (Microsoft Corporation)

For reference, the most recent chairman's report to the CC, prior to this, is contained in Ecma/TC39/2005/036.

2 Meetings

Numerous technical meetings of TC39 Task Groups and one TC39 meeting have occurred since the most recent report.

Task Group meetings:

- TG1: weekly phone since late 2005, 3 F2F
- TG2: 3 phone, 1 F2F
- TG3: 4 phone, 2 F2F
- TG4: ~3 phone, 3 F2F
- TG5: 0 phone, 0 F2F

TC39 meeting

- Face-to-Face 21st meeting hosted in Geneva, Switzerland by Ecma on 12 April 2006

3 Progress

See TC39/2006/010 for the latest, detailed TC39 status and progress report via the minutes of the 21st meeting

The past 6 months saw edition 1 of the Ecma-372 (C++/CLI) approved by the Ecma General Assembly. The TC39-TG5 (C++/CLI) are now working through the ISO/JTC1 fast-track process to receive ISO approval for the respective Ecma standard. A successful ISO/IEC ballot resolution meeting for Ecma-334 (DIS 23270) and Ecma-335 (DIS 23271) was held in Geneva on 12 April; the TC39-TG2 (C#), TC39-TG3 (CLI) and TC39-TG4 (Eiffel) have received ISO/IEC approval. This approval is for edition 3 of C# and CLI, after the Japan National Body had agreed to change its vote from NO to YES w/ comments, and edition 1 of Eiffel. ISO/IEC DIS 23270 and 23271 is submitted to Ecma as edition 4 of Ecma-334 and Ecma-335, respectively. TC39-TG4 (Eiffel) had the TC39 unanimously approve the received draft for forwarding to the GA to become the 2nd Edition of the Eiffel Language Specification (ECMA-367). The TC39-TG1 (EcmaScript) continues to work on their respective specifications diligently.

4   Latest TC39/TG Status:

4.1   Task Group 1: ECMAScript (TG1/2006/002)

Mr. Brendan Eich (Mozilla) presented the Convener report to TC39.

TG1 proposes to open the wiki for read-only public access with comment pages, ideally by 1 June.

TG1 also aspires to build a unified open test suite with which to test emerging implementations.

TG1 expects to have a complete specification by 1 September.

TG1 anticipates work checking the spec, incorporating feedback and possibly actual model language from the checkable semantics, and formatting and polishing, to require at least four months. Therefore TG1 anticipates presenting the completed Edition 4 of ECMA-262 by the end of the first quarter of 2007.

One change from the last report: TG1 intends *not* to fold ECMA-357 (ECMAScript For XML, "E4X") into Edition 4 of ECMA-262 as normative. Some implementations do not interact with XML much or at all. Certain implementations would have difficulty fitting E4X along with Edition 4 in their small-memory target devices. TG1 is including grammatical place-holders for E4X syntax, and TG1 expects to refine ECMA-357 in the future, based on experience with E4X and Edition 4's type system.

4.2   Status report from Task Group 2: C# (TG2/2006/009)

Dr. Nigel Perry (University of Canterbury, New Zealand) presented his Convener's report to TC39.

TG2 has resolved the vast majority of submitted comments, a few being left for final resolution at the ISO/IEC DIS Ballot Meeting.

TG2 held a successful Ballot Meeting and subsequent release of the second edition of the ISO/IEC IS 23270 C# Language Specification.

TG2 has also addressed a number of editorial issues uncovered in the third edition of the Standard, with a few left to tidy up at its own meeting after the ISO/IEC Ballot Meeting. TG2 anticipates voting to accept the fourth edition of the Ecma Standard based on the second edition of the ISO Standard and to submit this to TC39 for adoption.

After the current meetings, and the adoption of the two Standards, TG2 will be taking a break. The email reflector will remain open for discussion as the new Standards are taken up by the community. It is intended this will remain open until, and if, TG2 decides that a further edition of the Standards are warranted, or that no further discussion or development on the Standards is required.

Though not a direct TG2 activity we report that an Annotated C# Standard is in preparation authored by three members of the task group with contributions from other members and people in the wider community. This book will be published by Elsevier and should appear later this year.

TG2 would like to thank the NBs for their participation and submitting of comments. The ISO Standard has been improved due to their contribution.

The convener would like to thank the task group and editor for all of their hard work during the last six months in preparing the second edition

4.3   Status report from Task Group 3: CLI (TG3/2006/006)

Mr. Jim Miller (Microsoft Corporation) presented **Mr. Joel Marcey** (Intel Corporation) convener's report to TC39.

TC39 unanimously approved the received drafts for forwarding to the GA to become the 4th Edition of the CLI Specification and the two TR's as editions 4 and 2 respectively.

The 3rd Edition of the CLI specification resulted in comments from Ecma and National Body Japan during the ISO/IEC JTC1 ratification process. These were discussed and resolved at the Ballot Resolution meeting in Geneva.

As a review, here are the edition 3 details:

- ECMA-335 – 6 partitions specifying the virtual machine, XML-structured class library
- ECMA TR/84 – XML-structured class library rendering tool, Word/PDF class library documents
- ECMA TR/89 – Additional Generics Library

The convener would like to thank the task group for their hard work during the last 6 months reviewing, discussing and providing resolutions to comments made on the 3rd edition.

4.4 Status report from Task Group 4: Eiffel (TG4/2006/010)

Dr. Jan van den Beld (Ecma) presented **Mr. Emmanuel Stapf** (Eiffel Software) convener's report to TC39.

TC39 unanimously approved the received draft for forwarding to the GA to become the 2nd Edition of the Eiffel Language Specification. 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.

The convener would like to thank all the hard-work from the committee members to prepare the ISO comments submission and a special thanks to Eric Bezault from Axa Rosenberg for his careful review of the Standard.

4.5 Status report from Task Group 5: CLI Binding for C++ (TG5/2006/002)

Dr. Tom Plum (Plum Hall) presented his Convener's report to TC39.

There are controversies and challenges in regard to the fast-track. The contradictions have primarily concerned the name "C++/CLI" and its potential to confuse or mislead the public.

The tentative schedule for a ballot resolution meeting is Thursday October 12 and Friday October 13, in Portland Oregon USA.

5 Election of Officers

None

6 Drafts to be submitted to the GA for Adoption

- TG2: ECMA-334, edition 4, C#
- TG3: ECMA-335, edition 4, CLI
- TG4: ECMA-367, edition 2, Eiffel

7 Recommendations

The TC39 has unanimously approved the following specifications

- TG2: ECMA-334, edition 4, C#
- TG3: ECMA-335, edition 4, CLI
- TG4: ECMA-367, edition 2, Eiffel

and recommends approval of these specifications by the GA in June 2006. Also, with specification

- TG5: Ecma-372, edition 1, C++/CLI,

the TC39 recommends adoption by ISO/IEC JTC 1 under their fast-track procedure.

8   Future TC39 Meetings

- Meeting 22: Portland, Oregon, USA hosted by Intel, 13th October 2006 (venue to be confirmed)

Joel Marcey (Intel Corporation)

Chairman TC39