Revised minutes of the: 5th meeting of Ecma TC39
held in: Oslo, Norway
on: 23-25 July 2008

Chairman: John Neumann (Microsoft/Adobe)
Attending: Allen Wirfs-Brock (Microsoft), Douglas Crockford (Yahoo), Michael Daumling (Adobe), Brendan Eich (Mozilla), Cormac Flanagan (UCSC), Lars Hansen (Adobe), Waldemar Horwat (Google), Pratap Lakshman (Microsoft), Mark Miller (Google), Adam Peller (IBM), Chris Pine (Opera), Arun Runganathan (Mozilla), Dan Smith (Adobe).

1 Opening, welcome and roll call

Mr. Neumann welcomed members to Oslo for the 5th meeting of TC39 and expressed his appreciation to Opera for hosting the meeting. Mr. Neumann asked Mr. Pine (Opera) to introduce facilities and plans for lunch and dinner.

The TC expressed its appreciation to Opera and Ecma for hosting dinners.

2 Adoption of the agenda (2008/054)

The revised agenda was approved and will be followed during the meeting.

3 Approval of the minutes of May 29th & 30th, 2008 (2008/052)

The minutes approved as presented. Mr. Neumann gave a brief review of GA, particularly as it related to TC39 document preparation plans, and noted concern by GA members of sending disjointed standards with the same number to JTC 1 for approval.

4 Harmonization of ECMAScript

Mr. Eich advocated harmonized work to simplify the work load and assure success. Mr. Miller agreed and felt that a version less than current 4 and greater than current 3.1 was a desirable goal. Mr. Wirfs-Brock advocated for a new formalism for specifying the language, but also realistic that this might be hard to do in time for the new release of 3.1. The requirement for the Cautious subset is repair of existing problems, proper block level scoping, need to keep things small (simple) and gave an example on the white board.

4.1 Concept

See the Press Release on ES Harmony here.

See the White Paper on ES Harmony here.

4.2 Actions

Papers will be presented that define the harmonization and the content of ES 4 and this will be discussed over the next several meetings, however focus of the committee will be to finish 3.x as soon as possible. Members are invited to prepare contributions for the next meeting.
5 ES3.1 draft proposal discussion

5.1 Draft Review

**TC39/2008/055 Draft ECMAScript 3.1 Language Specification**

Discussion on successor document dated July 15th. Comments from Mr. Horwat were looked at in detail and corrections made to the draft as appropriate. This draft is to be forwarded to Ecma for distribution.

Changes were captured by Mr. Lakshman as editor to create the next draft. Changes are tempered by the continued need to harmonize this release with what follows.

**TC39/2008/065 Proposed ECMAScript 3.1 Static Object Functions: Use Cases**

Subject matter was discussed in length during the course of the discussion on the previous document.

5.2 Next Steps

Mr. Lakshman will generate a further version of this document based on this week’s discussions. Further review to achieve harmonization will occur at the next meeting. Test implementations will be identified, and testing will be started where possible. Contributions to Mozilla are welcome for tests. Twice weekly phone calls will continue.

6 ES4 draft proposal discussion


Discussion of harmonization issues in this draft vs current 3.1 as a result of this meeting. There is general agreement that the next step after 3.1 needs to be well thought out and planned so that subsequent releases are incrementally coherent (see harmonization above).

**TC39/2008/057 ECMAScript 4th Edition - Predefined Types and Objects**

See above

**TC39/2008/058 ECMAScript 4th Edition - Core Language**

See above


See above

**TC39/2008/060 Text comparison between draft 1 and draft 2 introduction**

Information only

**TC39/2008/061 Text comparison between draft 1 and draft 2 core-language**

Information only

**TC39/2008/062 Text comparison between draft 1 and draft 2 grammar**

Information only

6.1 Draft Status

Draft road map will be prepared by Mr. Eich and circulated for review by the committee. The current ES 4 draft will no longer be reviewed, and proposals will be discussed at the next meeting to identify the scope of the next draft that will be consistent with harmonization. Some agreements include: no “namespace”; “0 inheritance” (starting point); “de-sugared classes”; “one constructor”; (Dynamic Type System is possible and there was general agreement that a Static Type System is not wanted).

6.2 Next Steps

Committee members should review the draft road map in preparation for the next meeting and identify additional areas of harmonization.

7 Interoperability Testing
7.1 Concept
The concept of interoperability testing was discussed and there is agreement that such testing was desirable and that it should be against two browser implementations. It was agreed that in this case the reference implementation was not appropriate.

Since the committee was not doing testing, there was not concern for IPR issues since we are not asking for an implementation, but only the results of testing. The purpose of this testing is to demonstrate that the specification can be implemented by two separate entities, and a program compiled on one implementation can be reliably compiled on the second implementation and the results would be identical on both implementations.

7.2 Actions
See 5.2 above for action to identify implementations for interoperability testing.

8 Discussion of SC 22 OWG-V Request for Liaison (2008/053)
Response will be sent identifying Mr. Crockford as the Liaison contact point from TC39 to SC 22 OWGV.

9 Progress reports on the "Secure ECMAScript" Plan
None

10 Any other business
None

11 Date and place of the next meeting(s)
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<thead>
<tr>
<th>Month</th>
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<tr>
<td>September</td>
<td>Redmond, WA</td>
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12 Closure
The meeting closed around 3 PM on Friday.