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Software and System Engineering
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Address reply to: ISO/IEC JTC1/SC7 Secretariat
École de technologie supérieure – Département de génie électrique
1100 Notre Dame Ouest, Montréal, Québec Canada H3C 1K3
secretariat@jtc1-sc7.org

www.jtc1-sc7.org

Meeting Report

Fifteenth Plenary Meeting of ISO/IEC JTC 1/SC 22, Saariselkä, Finland, 2002-08-26/30

Prepared by James W. Moore, SC7 Liaison Representative to SC22

I attended the SC22 Plenary Meeting in my role as liaison from SC7. Of the 45 resolutions resulting from the meeting, one (02-03) should be of particular interest to SC7. I will also briefly describe two others.

Coordination with IEEE

SC22/WG15 has been working with IEEE for several years to coordinate the POSIX standards. They provided the following advice to SC7:

Resolution 02-03: Liaison Statement to JTC 1/SC 7

JTC 1/SC 22 directs its Secretariat to send the following liaison statement to JTC 1/SC 7, along with SC 22 N3485 and N3486:

JTC 1/SC 22 wishes to advise JTC 1/SC 7 of its success in cooperating with the IEEE Computer Society in the coordinated adoption of identically worded standards. For more than ten years, SC 22/WG 15 and IEEE-CS have cooperated by applying a procedure intended to coordinate the adoption processes of the two organizations (see SC 22 N3485 and N3486 for procedures). Using this procedure, the famous POSIX standards are identical in both ISO/IEC and IEEE.

Commenting Template

SC22 requested continuing attention to providing non-proprietary alternatives to required formats.

Resolution 02-15: NB Comment Template

JTC 1/SC 22 notes that the recent ISO requirement that NB comments on ballots be in specified formats fails to provide for preparing such comments using non proprietary software. SC 22 directs its Secretariat to contact JTC 1 with the request that JTC 1 asks ITTF for an open systems template (such as HTML) for preparing these NB comments.

Future of JTC1

SC22 provided this response to a JTC1 document discussing its future:

Resolution 02-19: Response to SC 22 N3417, Draft JTC 1 response to JTC 1 N 6728, Reflections and recommendations on the future of ISO/IEC JTC 1

JTC 1/SC 22 instructs its Secretariat to send the following to the JTC 1 Secretariat for review at the October 2002 JTC 1 Plenary:

SC 22 believes that JTC 1 N 6778 is insufficiently responsive to the requests from ISO and IEC.

SC 22 recognizes that many ICT standards are now developed outside the ISO/IEC arena by consortia and fora due to a number of reasons. Some of these reasons cannot be addressed by changes to JTC 1 working practices. Therefore, standards will continue to be developed in this manner in the future, with both benefits and drawbacks to this approach.

SC 22 does not believe that it has a full understanding of the needs of its customers (which include but are not limited to manufacturers, consumers, government, and standards purchasers). SC 22 believes that it is important for the continued success of the subcommittee to organize a workshop to determine these needs. SC 22 requests that JTC 1 organize such a workshop on behalf of all JTC 1 subcommittees, to be held either electronically or face to face. If this workshop is not organized, SC 22 instructs its Chair and Secretariat to organize this meeting at the SC 22 level.

ISO/IEC JTC 1/SC22
Programming languages, their environments and system software
interfaces
Secretariat: U.S.A. (ANSI)

ISO/IEC JTC 1/SC22 N3486

TITLE:
JTC 1/SC 22/WG 15 Procedures for the Joint Development of Common
Standards (JDOCS)

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SC 22/WG 15

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Address reply to:
ISO/IEC JTC 1/SC22 Secretariat
Matt Deane
ANSI
25 West 43rd Street
New York, NY 10036
Telephone: (212) 642-4992
Fax: (212) 840-2298
Email: mdeane@ansi.org

BALLOT DRAFT***Procedures for Joint Development of Common Standards (JDOCS)***

1. **Objectives:** The objective of this joint process is to produce a document that is ready to be adopted as a standard by all three parent organizations (ISO/IEC, IEEE-SA, and The Open Group).
2. **Scope:** This document defines the rules and procedures for the operation of a Joint Working Group (JWG).
3. **Consensus:** Within the JWG decisions should be made by consent of all present, after detailed discussion. Formal objection must be employed to define absence of consensus.

Small group working: From time to time, a smaller set of individuals may be tasked with preparing work for later discussion in a plenary meeting. These small groups should be created and disbanded by the Chair, as appropriate. Initial decisions reached in small groups must be reported back to the plenary for action. Small groups shall meet only during formally called JWG meetings.

For items where there is no dissent a proposed Consent List should be submitted. Where there is dissent, those items should be placed on an Issues List.

Plenary Discussion: Any item can be removed from a Consent List by any one of the three Organizational Representatives (ORs) or the Chair. The Issues List shall be reviewed item by item.

Formal Votes: Formal votes on a specific issue shall be held only upon the specific demand of an OR . Whenever a formal vote is demanded, there shall be a 45 day ballot period. All ORs are required to vote either "Approve" or "Disapprove"; abstentions are not permitted. A register of all formal votes shall be maintained by the secretary. The register shall identify the issue, the organization demanding the vote, and the vote of each organization.

4. **Officers:** The JWG shall have a chair, and secretary. The chair shall be selected by majority vote of the ORs, and the chair shall serve at the pleasure of the ORs. The chair shall not be one of the three organizational representatives. Each organization shall appoint its OR for each meeting. Organizations may appoint different individuals as OR for different meetings. For each meeting, an individual shall serve as OR for no more than one organization.
5. **Meetings:** JWG meetings (both plenary and small-groups) will be open to all interested parties. Meeting fees may be charged to cover costs if necessary. The JWG shall keep and publish minutes and attendance rosters. A meeting can be called by the JWG Chair or a majority of the ORs. Meeting notices must be posted to the JWG email alias (see 6) at least thirty days prior to the date of the meeting. ORs are responsible for ensuring their members are notified. ORs serve as vice chairs of the JWG.

Quorum: A quorum is defined as the Chair and the three ORs.

BALLOT DRAFT

6. **IPR and Document Distribution:** The work developed should not be proprietary or confidential in any form. All documents, including all drafts except the final, and JWG materials (e.g. minutes of meetings) must be electronically available. Comments on drafts should be made electronically, either via a web-based form or through email to a published address. Paper distribution of documents and drafts is not required.

The Chair is responsible for ensuring that the document distribution list and JWG email alias are maintained and current.

As soon as the first draft is available a notice should be posted to the JWG email alias inviting comment. It is the responsibility of each OR to ensure appropriate distribution within their organization.

7. **Review of Drafts and Final Ballot:** Review of document drafts should be conducted by each organization as appropriate.

Ballot of final documents will be done by each organization, with voting according to their own procedures.

By the time the document is ready for final ballot, consensus should have been reached on all issues.

A final ballot is intended to be a simple "Approve" or "Do Not Approve". There will be no modifications made to the document as a result of the final balloting process. Upon completion of the final ballot, the document shall be submitted to all approving organizations for adoption as an organization standard.

8. **Corrigenda:** Corrigenda to an adopted standard should be developed and balloted using the Joint Procedure. It is important that there be no divergence of the base document, and therefore corrigenda must be agreed between all organizations adopting the base standard. All interpretation requests and defect reports shall be resolved by the JWG.

ISO/IEC JTC 1/SC22
Programming languages, their environments and system software interfaces
Secretariat: U.S.A. (ANSI)

ISO/IEC JTC 1/SC22 N3485

TITLE:
JTC 1/SC 22/WG 15-IEEE CS PASC (POSIX) Synchronization Plan (1997)

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SC 22/WG 15

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Address reply to:
ISO/IEC JTC 1/SC22 Secretariat
Matt Deane
ANSI
25 West 43rd Street
New York, NY 10036
Telephone: (212) 642-4992
Fax: (212) 840-2298
Email: mdeane@ansi.org

SC 22 N 3485

WG15 N733 --, 20 May 1997

Supersedes: N121, N352r, N676 (96)

JTC1/SC22/WG15-IEEE CS PASC (POSIX) Synchronization Plan (1997)

Introduction

In ISO/IEC JTC1/SC22 N729 Resolution 110, SC22 instructs conveners that a synchronization plan as described in SC22 N730, be developed by all SC22 working groups, where national bodies are doing development work under an SC22 Administrative resolution. JTC1/SC22/WG15 (POSIX) [referred to below as WG15]; is operating under such terms in conjunction with the U.S. Standards Development Organization: IEEE Computer Society Portable Applications Standards Committee [referred to below as PASC, and previously part of TCOS]. The review and approval for this plan is as follows: This version is in response to the new JTC1 concept of "Final CD".

PASC Sponsor Executive Committee	N
IEEE Computer Society SAB	N
WG15	N720, N733, resolution 97-
SC22	N

Objectives:

To use the same text for relevant standards, at each stage of development, and for final adoption.
To gain the greatest possible consensus.

Plan:

1. Availability of Working Documents

The following steps are being taken by PASC-SEC in document distribution:

- 1.1. WG15 heads of delegation are included on any PASC-SEC electronic document distribution lists they select at no charge; and they may duplicate and distribute this information for national body evaluation. All draft documents will be made available through this channel.
- 1.2. Mature draft documents will also be distributed for review and comment within WG15, and prior to a request for CD registration, the US national body will have a draft distributed to SC22 for review and comment.
- 1.3 Any individual in the international community can participate in the IEEE CS PASC Standards work: attending meetings, receiving mailings obtain online access, or (if the individual is an IEEE or Computer Society member) participating in the balloting group. Minimal fees are associated with these forms of participation.

2. Processing stages up to final adoption

The relevant processing stages prior to balloting in IEEE are as follows:

- 1) Approval of a Project Authorization Request ("PAR") by the IEEE
- 2) Technical working group meetings and document development
- 3) Submission of the draft document for balloting

2.1 The following steps are being taken by PASC-SEC:

- 2.1.1 Distribution of overall PASC-SEC project status information to WG15, which provides visibility into new work areas, including those outside of the current scope of WG15.
 - 2.1.1.1 IEEE Project Authorization Requests (PARs) proposing new or revised work areas within POSIX shall be distributed to WG15 for review and comment.

2.1.2 Use of the format approved by ITTF for draft documents.

2.1.3 Encourage common membership between WG15 and the PASC working groups.

2.1.4 Encourage holding of occasional PASC Standards meetings outside of the US mainland.

2.2 The following steps have been taken by WG15:

2.2.1 The WG15 Convener has initiated regular status reports on WG15 work for SC22 (as requested by SC22 N729 resolution 139).

2.2.2 Division of Work Item was submitted to clarify the organization of work within the scope of WG15 (Approved by SC22, N729 resolution 136).

2.2.3 Ongoing encouragement of participation by individuals in IEEE PASC development work.

2.2.4 WG15 encourages participation by PASC technical experts in WG15 editing/ballot resolution meetings.

2.2.5 Early working draft distribution (1.1)

Review and comment distribution in WG15 and SC22 (1.2) of at least 3 months is essential to verify that the work of PASC will result in a document that can be readily accepted for balloting in SC22.

Member body feedback at this stage is most important, as the "final CD" process calls for technical comment and review to take place earlier in the development cycle.

3. Synchronization of balloting periods

The PASC Chair (chair of PASC-SEC) has the authority to delay steps in the IEEE balloting process. This is being used to force synchronization with ISO approval as follows:

3.1. For new documents and revisions (CD-DIS-IS path):3.1.0 IEEE 'ballot group formation' invitations shall be distributed to WG15 (in both paper and email form if expedient to do so) to ensure that WG15 Member Bodies are aware that an IEEE draft is about to enter this phase.

3.1.1. The IEEE balloting period is started when the document is ready for broad comment; at this time this draft document will be forwarded to SC22 for CD registration ballot. SC22 Member bodies are expected to submit technical comments at this point in time to WG15, as well as recommendations with respect to "final CD" registration..

3.1.2. The U.S. will recommend, to WG15, for CD Ballot, a document draft which includes revisions resulting from a draft circulated for IEEE balloting and the CD registration ballot comments. The project editor should indicate when "Final CD" may not be appropriate.

3.1.3. The international comments on the CD registration and ballot are fed into the IEEE balloting process; and IEEE recommendations for changes are fed into the CD ballot process as comments from the US national body. Substantive changes in response to these comments may result in multiple "Final CD" ballots.

3.1.4. The IEEE final approval is delayed until a disposition of comments satisfactory to WG15 can be developed that will permit an updated "Final CD" to be registered as a DIS. Once WG15 has made this agreement the same document is forwarded for IEEE approval. (This assumes that IEEE will reach 75% before WG15 has completed its part... which might not always be the case.)

3.1.5.. With the "Final CD" process, changes are not allowed at the DIS level, so concurrent publication by IEEE and ISO is appropriate. Corrections after "Final CD" need to be addressed as "Technical Corrigenda".

3.2. For Amendments, the approval sequence remains PDAM registration> (F)PDAM=>DAM=>AMD, but with a focused scope in the divided WI or NP.

3.2.1. Common sense leads to limitations on the number of amendments that can be handled independent of the main document. Most of the amendments expected for 9945 will be in the form of extended functions and new clauses. WG15

has proposed the following approach:

3.2.1.1. Proceed through the PDAM ballot process component so that timely review and comment can be obtained.

3.2.1.2. Combine approved PDAM level documents that affect the same part of IS 9945 into a single DAM amendment ballot where this can consolidate amendments proposed within a small window of time.

3.2.2. PASC will synchronize IEEE balloting periods with the PDAM registration & PDAM ballot process for amendments as in 3.1 above.

4.0 Interpretations / Defect Report Handling

4.1 The PASC Interpretations Vice Chair will forward Interpretations through the US national body (via the appropriate TAG) as defect reports to the appropriate WG Convener (see ISO/IEC form 14).

4.2 Defect reports received by WG15 Convener are distributed to all participating National bodies with a request to the U.S. to provide a proposed response. WG experts are invited to participate in the applicable PASC interpretations committee.

4.3 The WG15 defect report log will use the same numbering sequence as the IEEE PASC interpretations log

4.4 The IEEE interpretations committee will forward a response through the US National Body to WG15 as a proposed resolution.

4.5 Interpretation responses approved by WG15 will be notified to the initiator of the defect report by the WG15 Convener, and by the VC interpretations for IEEE PASC if it was submitted through IEEE initially.

4.6 Technical Corrigenda and Record of Response

4.6.1 Interpretations responses that do not require substantive changes to the document will be incorporated into a Record of Response which will be forwarded for SC22 action on a periodic basis, and to the IEEE for publication as an Interpretations document.

4.6.2 Interpretations that do require substantive changes will be incorporated into a Technical Corrigenda for SC22 approval, and concurrent balloting as a focused amendment in the IEEE process so that a single document is approved by both organizations.