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Software Engineering
Secretariat: CANADA (SCC)

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RESOLUTIONS
ISO/IEC JTC 1/SC7--SOFTWARE ENGINEERING
Walnut Creek, USA, June 9-13, 1997

NOTE: *ALL RESOLUTIONS HAVE BEEN ADOPTED UNANIMOUSLY UNLESS OTHERWISE NOTED.*

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ORGANISATION

Appointment of Convenors and Project Editors

473	SC7 Secretariat accepts the resignation of Peter Eirich as Convenor of WG11 and appoints Mr. Woody Pidcock as Convenor of WG11.
474	SC7 Secretariat accepts the resignation of Hugo Rehersaar as Convenor of WG12 and appoints Ms. Pam Morris as Convenor of WG12.
475	SC7 re-appoints Mr. Ken Johnson, Thomas Vollman and Prof. M. Azuma as Convenor of WG2, WG4 and WG6 respectively.
476	<p>Project Editors (USA-2)</p> <p>Whereas within ISO, IEC and JTC1, the role of project editor is vital to the development and maintenance of standards and technical reports and the current criteria for project editor performance expectations is situational. JTC1/SC7 instructs its Secretariat to explore with JTC1 the development of additional criteria for the selection and evaluation of project editors to include but not limited to: term of office, number of re-appointments, and declaration of member body support.</p>
477	<p>Common ISO, IEC and JTC1 Procedures (USA-1)</p> <p>Whereas JTC1/SC7 to fulfil its programme of work is required to engage in co-operative activities with technical committees within both ISO and IEC and the lack of common procedures reduces the effectiveness of those co-operative activities. JTC1/SC7 instructs its Secretariat to use all necessary means to communicate with JTC1 to put in place common procedures within all three organisations as soon as possible.</p>

Appointment of Project Editors

478	<p>JTC1/SC7 appoints the following persons as project editors:</p> <p>Ms. Anna Giannetti (Italy) - coeditor of project 07.13.01.01 (9126-1) Mrs. Carole Nadeau (Canada) - coeditor of project 07.13.01.02 (9126-2) Mrs. Annette Calkin (Germany) - coeditor of project 07.13.02.02 (14598-2) Mr. Jorgen Boegh (Denmark) - editor of project 07.13.02.03 (14598-3) Mr. Terry Rout (Australia) - editor of project 07.29 (15504) Ms. Catriona Mackie (UK) - editor of project 07.29.01 (15504-1) Mr. Jean-Martin Simon (France) - editor of project 07.29.05 (15504-5) Mr. George Jackelen (USA) - coeditor of Project 07.23 (15846) Mr. Jean-Philippe Jacquet (Canada) - coeditor of Project 07.31.03 Mr. Vipula Godamunne (Australia) - coeditor of Project 07.13.01.03 (9126-3)</p>
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WORK PROGRAM

SC7

479	SC7 approves a new work item to develop a Software Measurement Process Framework standard (07N1761). SC7 extends the performance period of the process measurement study group to 1997/12/01 for the purpose of refining and documenting the project requirements.
480	<p>SC7 instructs its Secretariat to forward to ISO/IEC JTC1 document 07N1761, a new work item to develop a Software Measurement Process Framework standard for balloting. Contingent on JTC1 approval of this work item, SC7 instructs its Secretariat to establish a new Working Group 13 and assign this project to it. Mr. John McGarry (USA) shall be the Convenor. The terms of reference for Working Group 13 are as follows:</p> <p>WG 13 Title - Software Measurement Processes</p> <p>Terms of Reference – Development of standards and technical reports to define and implement software measurement processes, frameworks and guidance.</p> <p>Working Group 13 shall interface directly with SC7 WG6, WG7, WG10, and WG12 to ensure project consistency.</p>
481	SC7 thanks the editor of project 07.20 Jean Bérubé for his work, and accepts DTR 15376 “Information Technology – Standardisation Framework for Software Engineering” as a contribution to its business planing process. SC7 thus instructs its Secretariat to close project 07.20 and to publish DTR 15376 on its future Web site.
482	Whereas the Japanese Member Body has kindly volunteered to establish and maintain a web site listing standards relevant to software engineering, i.e. an updated version of the current DTR 14399, SC7 recommends that its Secretariat accept this offer and facilitate the updating of 14399, placement of the resultant list on a web site, and ongoing maintenance of the list by the Japanese Member Body. SC7 also instructs its Secretariat to close project 07.20.03.01.

Working Groups

483	SC7 instructs its Secretariat to distribute document 07N1765 (Report on the Study Period for CASE Tool Compliance) to Member Bodies for review and comment.
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484	<p>JTC1/SC7 requests its member bodies to submit to George Jackelen (e-mail: jackelen@cclink.ivv.nasa.gov), SC7 WG 8 technical expert, by 1997/07/02 their experiences and interpretations of applying ISO 9001 to software.</p> <p>These experiences and interpretations will be consolidated by 1997/07/15 and sent to the SC7 Liaison Officer to TC176/SC2 and to the SC7 Secretariat for transmission to ISO TC176/SC2/WG18/TG1.2.2. by 1997/07/18.</p>
485	<p>SC7 authorises its WG7 to form an Other Working Group (OWG) for the development of Project Requirements (PR) for the revision of ISO/IEC 12207, Software Life-Cycle Process. SC7 instructs its Secretariat to circulate the TOR and the PR to Member Bodies for comments.</p>
486	<p>SC7 instructs its Secretariat to authorise an initial study period to demonstrate the feasibility of mapping modelling languages for analysis and design models, as defined in 07N1764 (WG11/N224). This is based on resolution JWSR2.3 of the final report (JTC1/N4345) from the JTC1 Joint Workshop held in Seattle, WA, USA September 1996 (http://www.nist.gov/jtc1-96/report.htm), and as per JTC1 Resolution #29 of its December 1996 Plenary (JTC1/N4474).</p>
487	<p>SC7 instructs its Secretariat to register document N1695 (WG11/N223R2) “Petri Net” as a CD and to circulate it for CD ballot to its Member Bodies.</p>

Cancellation of Projects

488	<p>Cancellation of Project 07.27.03 Software Quality Assurance</p> <p>Whereas</p> <p>ISO TC 176/SC2/WG 17 has revised ISO 9000-3 to incorporate the major concerns of SC7, in respects of referencing ISO/IEC 12207 and other concerns of the SC7 Ad Hoc working group.</p> <p>Therefore, JTC 1/SC7 instructs its Secretariat to take whatever action is necessary to have Project 07.27.03 Software Quality Assurance removed from its Program of Work.</p>
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DOCUMENT DISTRIBUTION

489	<p>SC 7 request its Secretariat distribute the document SABS ARP 042 (ISO 9001 Audit Checklist for Software) to its Member Bodies for information. SC7 invites the South Africa Member Body to submit the document for fast track processing to JTC1. SC7 instruct its Secretariat to request that JTC1 assign this project to SC7.</p>
490	<p>SC7 instructs its Secretariat to register document 07N1662 “Software User Documentation Process” as a CD and to circulate it for CD ballot to its Member Bodies.</p>

SC7 LIAISON

Collaborative Work with IEC/TC56 (WG9)

491	SC7 endorses the continuation of its collaborative work between its WG9 and IEC/TC56/WG10.
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Liaison Officers (Secretariat)

492	<p>JTC 1/SC7 reaffirms the importance of liaison with the following committees and confirms its liaison assignments as follows:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">ISO TC20</td> <td>Mr. Leonard L. Tripp (USA)</td> </tr> <tr> <td>ISO TC159/SC4</td> <td>Mrs. Anna Giannetti (Italy)</td> </tr> <tr> <td>ISO TC176/SC1</td> <td>Mr. Leonard L. Tripp (USA)</td> </tr> <tr> <td>ISO TC176/SC2</td> <td>Mr. Yossi Winograd (USA)</td> </tr> <tr> <td>ISO TC176/SC3</td> <td>Mr. Yossi Winograd (USA)</td> </tr> <tr> <td>ISO TC184/SC4</td> <td>Mr. James Fulton (USA)</td> </tr> <tr> <td>ISO TC 210</td> <td>Mr. Sherman Eagles USA)</td> </tr> <tr> <td>IEC TC56</td> <td>Mr. François Coallier (SC7 Chair)</td> </tr> <tr> <td>IEC TC65/SC65A</td> <td>Mr. Hans Daniel (Germany)</td> </tr> <tr> <td>ISO/IEC JTC 1/SC1</td> <td>Mr. Leonard L. Tripp (USA)</td> </tr> <tr> <td>ISO/IEC JTC 1/SC22</td> <td>Mr. Hugh Davis (UK)</td> </tr> <tr> <td>ISO/IEC JTC1/SC27</td> <td>Mr. Hans Daniel (Germany)</td> </tr> <tr> <td>ISO/IEC TC 62</td> <td>Mr. John Murrery (USA)</td> </tr> <tr> <td>ECMA/TC33 (“A” Liaison)</td> <td>Mr. Hugh Davis (UK)</td> </tr> <tr> <td>CEN TC311 (“A” Liaison)</td> <td>Mr. Michael O’Duffy (Ireland)</td> </tr> </table> <p>The SC7 Secretariat will send a letter to the Secretariats of the aforementioned committees to communicate officially this resolution.</p>	ISO TC20	Mr. Leonard L. Tripp (USA)	ISO TC159/SC4	Mrs. Anna Giannetti (Italy)	ISO TC176/SC1	Mr. Leonard L. Tripp (USA)	ISO TC176/SC2	Mr. Yossi Winograd (USA)	ISO TC176/SC3	Mr. Yossi Winograd (USA)	ISO TC184/SC4	Mr. James Fulton (USA)	ISO TC 210	Mr. Sherman Eagles USA)	IEC TC56	Mr. François Coallier (SC7 Chair)	IEC TC65/SC65A	Mr. Hans Daniel (Germany)	ISO/IEC JTC 1/SC1	Mr. Leonard L. Tripp (USA)	ISO/IEC JTC 1/SC22	Mr. Hugh Davis (UK)	ISO/IEC JTC1/SC27	Mr. Hans Daniel (Germany)	ISO/IEC TC 62	Mr. John Murrery (USA)	ECMA/TC33 (“A” Liaison)	Mr. Hugh Davis (UK)	CEN TC311 (“A” Liaison)	Mr. Michael O’Duffy (Ireland)
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493	SC7 instructs its Secretariat to seek liaison with IEC TC65/SC65A and ISO/IEC JTC1/SC27.																														
494	SC7 endorses memo SC7/97-108 and instructs its Secretariat to seek liaison with ISO TC20.																														
495	SC7 instructs its Secretariat to get the JTC1 endorsement for the establishment of a Category C liaison between its WG11 (project 07.28) and the Object Management Group (OMG)																														
496	SC7 instructs its Secretariat to get JTC1’s endorsement for the establishment of a Category C liaison between its WG8 (project 07.27.02) and the Project Management Institute (PMI).																														

SC7 MANAGEMENT

Document Renumbering

497	<p>Comments Identification</p> <p>That the comment identifier proposed in SC7 resolution 466 (Prague) be modified to ccc-n xx where:</p> <p>ccc - national body identifier using the ISO 3166 3 character country code</p> <p>n - sequential number for that countries comment set</p> <p>xx - comment category</p> <p>E Editorial</p> <p>G General</p> <p>TL Technical Low (minor)</p> <p>TH Technical High (major)</p> <p>The Australian delegation is developing a small MS-Access database as a comment resolution aid. The database produces reports of comments sorted by:</p> <ul style="list-style-type: none">• National Body• Document section <p>It can also be used to produce a disposition report.</p> <p>The database will be offered to SC7 in June 1997.</p>
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SC7 Business Planning Group

498	<p>SC7 Terms of Reference (BPG-01)</p> <p>JTC1/SC7 instructs its Secretariat to inform JTC1 that it endorses the following JTC1 approved terms of reference:</p> <p><i>"Standardization of processes, supporting tools and supporting technologies for the engineering of software products and systems.</i></p> <p><i>Note: The processes, tools and technologies are within the scope of JTC1 terms of references and exclude specific tools and technologies that have been assigned by JTC1 to other of its SC's."</i></p> <p>The JTC1 Scope is defined as "International standardization in the field of Information Technology" where Information Technology includes the "specification, design and development of systems and tools dealing with the capture, representation, processing, security, transfer, interchange, presentation, management, organization, storage and retrieval of information."</p>
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499	<p>SC7 Strategic Direction Statement (BPG-03)</p> <p>Whereas as the SC7 Strategic Planning Workshop has been completed and the results documented in 07N1763, SC7 Direction Statement 1997, JTC1/SC7 instructs its Secretariat to circulate the SC7 Direction Statement 1997 for a 60 day letter ballot by SC7 member bodies and instructs its Business Planning Group to prepare comment resolution by 15 December 1997.</p>
500	<p>SC7 Product Line Definition Proposal (BPG-04)</p> <p>Whereas as the SC7 Strategic Direction Statement 1997 confirms the need to have a consistent and cohesive overall view of all SC7 standards and technical reports, the Strategic Planning Workshop identified two actions:</p> <ol style="list-style-type: none"> 1. definition of the configuration of the SC7 Product Line clarify relationships and identify gaps, and 2. development of a means to move the current set of SC7 standards and technical reports to the target product line organization. <p>JTC1/SC7 therefore instructs its Secretariat to circulate the SC7 Product Line Definition Proposal to SC7 member bodies for a 60 days letter ballot and instructs the Business Planning Group to prepare the comment resolution.</p>
501	<p>1997 SC7 Product Plan (BPG-05)</p> <p>JTC1/SC7 instructs its Business Planning Group to update the 1996 SC7 Product Plan (N1699) describing the inventory of existing and in-work SC7 standards and technical reports consistent with the Product Line Definition Proposal. JTC1/SC7 instructs its Secretariat to circulate the 1997 SC7 Product Plan to SC7 member bodies for a 60 day letter ballot and instructs the Business Planning Group to prepare the comment resolution.</p>
502	<p>SC7 Software Engineering Vocabulary Special Working Group (BPG-06)</p> <p>SC7 instructs its Secretariat to form a Special Working Group on Software Engineering Terminology with the following terms of reference: (1) extract the fundamental SC7 terms from the following sources: SC7 terms of reference, ISO/IEC 9126, ISO/IEC 12207, and words in all titles of SC7 in-work and existing standards; (2) identify contradictions and ambiguities in terms within scope of the Vocabulary SWG, (3) suggest resolution of the contradictions and ambiguities; (4) recommend method of publishing, coordination with JTC1/SC1 and other ISO and IEC technical committees, and controlling SC7 fundamental terms, and (5) recommend a plan for next phase of the SWG including the achieving the intent of Resolution of 218. Report on SWG activities is due on 15 February 1998. Terry Rout, Australia, is appointed as the Convenor of the SC7 Special Working Group on Software Engineering Terminology. Membership in the SWG will consists of all SC7 editors and WG Convenors.</p>

<p>503</p>	<p>SC7 Management System (BPG-08)</p> <p>Whereas JTC1/SC7 intends to improve its resource tracking and utilization. JTC1/SC7 instructs its Secretariat to collect from WG Convenors by project the following information by 1997/12/01:</p> <ol style="list-style-type: none"> 1. Contributions by committed resources since last report to include one or more of the following, drafts comments or other assigned duties; 2. Attendance at working group meetings; 3. Additions to list of committed resources, and 4. Status regarding availability of committed resources to form. <p>JTC1/SC7 therefore instructs its Secretariat to inform member bodies on an exception basis by project on discrepancies with availability of committed resources by January 1st.</p>										
<p>504</p>	<p>SC7 Management Workshop 1998 (BPG-09)</p> <p>Whereas as the SC7 Strategic Direction Statement 1997 confirms the need of an effective system for management of product line definition, resource allocation, terminology consistency and control, and project dependencies and coordination. JTC1/SC7 instructs its Secretariat to arrange for the SC7 Advisory Group to hold a one day meeting immediately preceding the 1998 SC7 Plenary Meeting to address these management items. Australia and the UK have expressed a preference for holding that meeting the Sunday prior to the Plenary.</p>										
<p>505</p>	<p>SC7 Business Planning Group (BPG-10)</p> <p>JTC1/SC7 reconfirms the intent of Resolution 235 and form the SC7 business planning group as a special working group with the mandate to:</p> <ol style="list-style-type: none"> 1. plan, support and organize Management Workshop, 2. proposed update to the SC7 business plans and procedures, 3. propose updates to SC7 communications function, 4. plan transition of SC7 to become a horizontal committee, 5. update the SC7 Product Plan, 6. prepare the SC7 Product Line Definition Proposal, 7. provide oversight of the SC7 vocabulary activities, 8. prepare procedures and organization responsibilities to ensure an integrated strategy planning, business planning, and management system for SC7. <p>The Business Planning Group will be under the direction of the JTC1/SC7 Chair and composed of (or any other person deputed by):</p> <table data-bbox="321 1623 1419 1801"> <tr> <td>Mr. T. Bergier, France</td> <td>Mr. A. Coster, UK</td> </tr> <tr> <td>Mr. H. Daniel, Germany</td> <td>Mr. A. Dorling, UK</td> </tr> <tr> <td>Ms. S. Lynn, Australia</td> <td>Mr. P. Rogoway, Israel</td> </tr> <tr> <td>Mr. L. Tripp, USA (co-Convenor)</td> <td>Mr. P. Voldner, Canada (co-Convenor)</td> </tr> <tr> <td>Mr. Y. Yamamoto, Japan</td> <td></td> </tr> </table>	Mr. T. Bergier, France	Mr. A. Coster, UK	Mr. H. Daniel, Germany	Mr. A. Dorling, UK	Ms. S. Lynn, Australia	Mr. P. Rogoway, Israel	Mr. L. Tripp, USA (co-Convenor)	Mr. P. Voldner, Canada (co-Convenor)	Mr. Y. Yamamoto, Japan	
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Mr. Y. Yamamoto, Japan											

506	Identification of SC7 Committed WG Resources (BPG-07) Whereas as JTC1 has new rules for management of newly formed projects and to assist SC7 management, SC7 instructs its Secretariat to prepare a report by project of known committed resources and request confirmation by each SC7 member body by 15 September 1997.
507	(WG2) JTC1/SC7 deplores the negative impact on the SC7 program of work caused by the decision of JTC1 to cancel a number of current projects and the methods used to manage and communicate these actions. Several projects have been delayed by up to six months with consequent effects which will jeopardize the timely publication of the standards. The combination of these events has caused severe degradation in morale of the volunteer experts concerned.
508	SC7 as a Horizontal Committee (BPG-02) JTC1/SC7 instructs its Secretariat to use all necessary means to obtain horizontal committee status for SC7 as defined in IEC Guide 108.

Cut-off Date for Document Issuance

509	The JTC1/SC7 Secretariat commits to respect the following schedule for all documents requiring 3 months and 14 days balloting. In this schedule, the SC7 Secretariat commits to take no longer than 1 week to process the documents prior to and following the ballots. For documents sent outside the attached schedule, the SC7 Secretariat commits to take no longer than 10 work days to process the documents prior to and following the ballots. These commitments only apply for documents that are received in an acceptable format and quality and with all relevant additional information.				
	Cut-off Date to Send Doc. to Secr. For Ballot	Ballot Start	Ballot End	Ballot Summary Report	Interim Meeting
	97/06/30	97/07/07	97/10/20	97/10/27	97/11/17
	Cut-off Date to Send Doc. to Secr. For Ballot	Ballot Start	Ballot End	Ballot Summary Report	Plenary Meeting
	98/01/05	98/01/12	98/04/27	98/05/04	98/05/25

General Administration

510	SC7 instructs its Secretariat to revise the combined WD & CD Registration ballot form to clearly distinguish between the vote on the registration and the comments.
511	SC7 accepts the resignation of Mr. Joseph Côté as Chair of JTC1/SC7 and endorses the nomination of Mr. François Coallier as Chair of JTC1/SC7.

APPRECIATIONS

JTC1/SC7 accepts the resignation of Mr. Joseph Côté as a Chairman of SC7 and extends a sincere appreciation of his excellent and diligent work on behalf of the SC7.

JTC1/SC7 extends its appreciation to Mr. Peter Eirich for his excellent and diligent work as Convenor of WG11.

JTC1/SC7 extends its appreciation to Mr. Hugo Rehesaar for his excellent and diligent work as Convenor of WG12.

JTC1/SC7 extends its appreciation to Mr. Yoshikazu Yamamoto for his excellent and diligent work as Co-Convenor of WG11.

JTC1/SC7 extends its appreciation to Mr. Peter Simms (UK) as project editor of project 07.29 for his excellent and diligent work.

JTC1/SC7 extends its appreciation to Mr. Terry Rout (Australia) as project editor of project 07.29.01 for his excellent and diligent work.

JTC1/SC7 extends its appreciation to Mr. Mark Paulk (USA) as project editor of project 07.29.02 for his excellent and diligent work.

JTC1/SC7 extends its appreciation to Mr. Michael Konrad (USA) as project co-editor of project 07.29.02 for his excellent and diligent work.

JTC1/SC7 extends its appreciation to Mr. H. Ron Berlack (USA) for his excellent and diligent work on Software Configuration Management Project 07.23.

JTC1/SC7 extends its appreciation to Arnolito Diaz (Mexico) for his excellent and diligent work as a project editor of project 07.29.05.

JTC1/SC7 extends its appreciation to Alain April (Canada) for his excellent and diligent work as a project editor of project 07.13.01.02.

JTC1/SC7 extends its appreciation to Mr. Yossi Winograd (TC 176 Liaison) and WG8 for their excellent and diligent work on conveying clear and concise SC 7 requirements to TC 176 for the ISO 9000-3 update.

JTC1/SC7 thanks US Member Body for hosting the Tenth Plenary meeting of JTC1/ SC7 in Walnut Creek. Special thanks go to Mr. Tom Vollman for his efforts put into the preparation of the meeting.

JTC1/SC7 extends its appreciation to Mr. Leonard L. Tripp and Mr. Peter Voldner for their organization and facilitation of the SC7 Strategic Planning Workshop.

JTC1/SC7 extends its appreciation for Boeing, CSC, and the ICCP for supporting the SC7 Strategic Planning Workshop.

JTC1/SC7 extends its appreciation for the excellent administrative support provided at the Tenth Plenary meeting by the IEEE Computer Society support staff:

- Anne-Marie Kelly
- Tracy Woods
- Deidre Bagley
- Kerry Bedford
- Allison Annette

JTC1/SC7 extends its appreciation for the excellent computer support provided at the Tenth Plenary meeting by Cheryl Jones, US Naval Undersea Warfare Center Newport, RI.

JTC1/SC7 extends its appreciation to ANSI and IEEE for sponsoring the Tenth Plenary Meeting.

JTC1/SC7 extends its appreciation to the corporate sponsors of the Meeting: ASQC, Boeing, CSC, CTIS, Department of Defense, Hewlett Packard, Hughes, IBM, ICCP, Motorola, Oracle and Texas Instruments.