

JTC 1/SC 22 FINAL Resolutions for the Eighteenth Plenary Meeting  
29 September-2 October 2005  
Mont Tremblant, Canada

**Resolutions Prepared at the Eighteenth Plenary Meeting of  
ISO/IEC JTC 1/SC 22,  
30 September-2 October 2005, Mont Tremblant, Canada**

**Resolution 05-01: Free Availability of ISO/IEC JTC 1 Standards**

JTC 1/SC 22 instructs its Secretariat to compile a list of all standards previously requested by JTC 1/SC 22 for free availability.

JTC 1/SC 22 instructs its Chair to work directly with ITTF to ensure that all JTC 1/SC 22 standards on this list are included in the list of freely available JTC 1 standards on the ITTF website.

Noting that this is not the first time this request has been made, JTC 1/SC 22 instructs its Chair to request that the web pages for each of the JTC 1/SC 22 standards on that list on the ISO On-Line Store site describing all standards approved for free availability clearly state that there is no charge for electronically downloadable versions.

*Unanimous*

**Resolution 05-02: Free Availability of JTC 1/SC 22 Documents**

JTC 1/SC 22 requests the following JTC 1/SC 22 documents be made freely available via the ISO On-Line Store:

Technical Reports

- ISO/IEC TR 15580: 2001, Floating-Point Exception Handling, Type 2 TR, Second edition
- ISO/IEC TR 15581: 2001, Enhanced Data Type Facilities, Type 2 TR, Second edition
- ISO/IEC TR 19767: 2005, Enhanced Module Facilities in Fortran, Type 2 TR
- ISO/IEC TR 18015, C++ Performance, Type 3 TR

Standard

- ISO/IEC 10967 (Parts 1, 2), Language Independent Arithmetic

Upon publication:

Technical Corrigendum

- ISO/IEC 1539:2004, Programming languages – Fortran: COR1

Standard

- ISO/IEC 10967 (Part 3), Language Independent Arithmetic

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JTC1/SC 22, noting JTC 1 Sendai Resolution 32, instructs its Secretariat to take necessary administrative actions to make these documents freely available.

*Unanimous*

### **Resolution 05-03: Modifications to the JTC 1/SC 22 Programme of Work**

JTC 1/SC 22 approves the following changes to the JTC 1/SC 22 Programme of Work:

- A one year extension for
  - o ISO/IEC TR 24732, Extensions for the Programming Language C to Support Decimal Floating-Point Arithmetic, and
  - o ISO/IEC TR 24733, Extensions for the Programming Language C++ to Support Decimal Floating-Point Arithmetic,due to the delay in the completion of the revision of IEEE 754, Standard for Floating-Point Arithmetic.
- A title change to ISO/IEC 24731 from “Specifications for Secure C Library Functions” to “Extension to the C Library – Part 1: Bounds Checking Interfaces” in response to National Body comments on CD registration ballot.

JTC 1/SC 22 instructs its Secretariat to inform JTC 1 of these modifications to the JTC 1/SC 22 Programme of Work.

*Unanimous*

### **Resolution 05-04: Withdrawal of JTC 1/SC 22 Standards and Technical Reports**

JTC 1/SC 22 agrees that the following JTC 1/SC 22 Standards and Technical Reports be withdrawn:

- ISO/IEC 15068-2: 1990, POSIX system administration – Software administration
- ISO/IEC TR 14252: 1996, Guide to POSIX open systems environments
- ISO/IEC 14515-2: 2004, Shell and utility test methods

JTC 1/SC 22 instructs its Secretariat to inform ITTF of this decision.

*Unanimous*

**Resolution 05-05: Withdrawal of ISO/IEC 13814: 1998, Generic Package of Complex Elementary Functions in Ada**

JTC 1/SC 22, noting Resolution 01-07 and that this withdrawal request has not been completed and that this standard is listed as confirmed on the ISO web site, requests that the withdrawal of ISO/IEC 13814: 1998 be implemented.

*Unanimous*

**Resolution 05-06: Document Submission to ITTF**

JTC 1/SC 22 notes that its project editors have been having substantial problems with the publication process. For example, in a number of recent publications, internal bookmarks were removed, rendering the documents difficult to navigate.

JTC 1/SC 22 instructs its secretariat to request the ITTF to allow the following mode of processing to be applied at the request of the project editor before publication of an JTC 1/SC 22 standard, TR, or corrigendum.

1. The project editor sends the approved format (currently PDF file) together with any additional source files necessary for ITTF to note and verify changes.
2. The ITTF lists the changes it requires.
3. The project editor constructs a new approved format file and source files and sends them.
4. Steps 2. and 3. are repeated until no changes are needed.

The purpose of this procedure is to improve the quality of the final document.

*Unanimous*

**Resolution 05-07: Communication with the Chair of IEEE Standards Association**

JTC 1/SC 22 instructs its Chair to communicate the concerns of JTC 1/SC 22/WG 4 (COBOL), JTC 1/SC 22/WG 11 (Language Bindings), JTC 1/SC 22/WG 14 (C) and JTC 1/SC 22/WG 21 (C++) regarding the delay of the work on the revision of IEEE 754, emphasizing that a number of JTC 1/SC 22 projects have been delayed because they rely on this work.

*Unanimous*

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**Resolution 05-08: Revision of IEEE 754 Standard for Floating-Point Arithmetic**

JTC 1/SC 22 instructs the Convener of JTC 1/SC 22/WG 4 (COBOL) to contact all JTC 1/SC 22 Working Group Conveners to request their input regarding requirements for the decimal floating-point work of the IEEE 754 Working Group. The Convener is instructed to prepare a paper detailing these requirements and to submit this paper to the JTC 1/SC 22 Secretariat for distribution to JTC 1/SC 22 for information.

*Unanimous*

**Resolution 05-09: Letter Ballot for the Disbandment of JTC 1/SC 22/WG 3 (APL)**

JTC 1/SC 22 instructs its Secretariat to issue a three-month letter ballot on the approval of the disbandment of JTC 1/SC 22/WG 3.

*Canada Abstains.*

**Resolution 05-10: Organizational Representative to the Austin Joint Working Group**

JTC 1/SC 22 appoints Nick Stoughton as Organizational Representative from JTC 1/SC 22 to the Austin Joint Working Group with Keld Simonsen as alternate representative.

Further, JTC 1/SC 22 instructs the OR to ensure that all issues of inter-working-group representation with respect to the Austin Joint Working Group be addressed by the OR.

*Unanimous*

**Resolution 05-11: Establishment of Liaison Between JTC 1/SC 22/WG 14 (C) and the Austin Joint Working Group**

JTC 1/SC 22 approves the establishment of the internal liaison between JTC 1/SC 22/WG 14 and the Austin Joint Working Group with Nick Stoughton as the bi-directional liaison representative.

*7 yes, 1 no (Canada)*

**Resolution 05-12: ISO/IEC TR 24715, Technical Report on the Conflicts Between the ISO/IEC 9945 (POSIX) Standard and the Linux Standard Base Specification**

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JTC 1/SC 22 authorizes the JTC 1/SC 22 Secretariat to submit the text of TR 24715 to JTC 1 for DTR balloting upon receipt of the TR text (after the transmission of ISO/IEC 23360, Linux Standard Base Core Specification, to ITTF for final processing) from the Project Editor.

*Unanimous*

### **Resolution 05-13: Transition to Live Link**

JTC 1/SC 22 notes that the transition of the committee's website and documents to Live Link are causing difficulties for some members. (In particular, several members have experienced browser compatibility issues.) Therefore, because the new system is not fully understood and the browser issues are not resolved, JTC 1/SC 22 authorizes Keld Simonsen to continue to maintain the current JTC 1/SC 22 website and document repository, mirroring all documents appropriate to the subcommittee until the 2006 Plenary. Further, JTC 1/SC 22 notes that its working groups are not required to use Live Link unless they so desire, and may continue to maintain their own websites and document repositories.

JTC 1/SC 22 thanks Mr. Simonsen for his maintenance of the JTC 1/SC 22 website.

*Unanimous*

### **Resolution 05-14: JTC 1/SC 22 N 3913, NP Ballot on Guidance to Avoiding Vulnerabilities in Programming Languages through Language Selection and Use**

JTC 1/SC 22 notes that the "No" votes of the UK on Questions 1 and 2 are changed to "Yes" due to resolution of the concern noted in their ballot; and that final disposition of the NP is not yet possible pending clarification of the vote of one National Body.

To deal with any necessary work, JTC 1/SC 22 creates an Other Working Group on Vulnerability (OWG: Vulnerabilities), in accordance with sub-clause 2.6.2 of the JTC 1 Directives, with the following terms of reference:

- Definition of the task: Using the statement of scope previously provided in JTC 1/SC 22 N 3913, create an initial draft document and, if necessary, a revised New Work Item Proposal.
- Time frame: Submit the materials by the next plenary meeting of JTC 1/SC 22.
- Membership: Open to all JTC 1/SC 22 P and O members, liaison organizations, and subgroup representatives.

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- Convener: James W. Moore (US).
- Administrative Support: The MITRE Corporation.
- Meetings: Continued operation by email and website collaboration pending invitations by working groups to co-locate meetings.

JTC 1/SC 22 instructs working groups to work with OWG: Vulnerabilities to co-locate meetings on this topic as appropriate.

*Unanimous*

### **Resolution 05-15: Grammar Engineering Project**

JTC 1/SC 22 notes “Grammar Engineering” is a project being run from the Free University of Amsterdam that is of relevance for existing and future JTC 1/SC 22 projects. JTC 1/SC 22 instructs its subgroups and project editors to:

- review this work, available from <http://www.cs.vu.nl/grammars/browsable> and discussed in JTC 1/SC 22 N 3977;
- investigate areas for co-operation; and
- report at the 2006 JTC 1/SC 22 Plenary upon progress made and issues found.

*Unanimous*

### **Resolution 05-16: Packaging of POSIX Standard Series**

JTC 1/SC 22 notes that the ISO/IEC 9945 standard series is intended to be used as a single specification.

JTC 1/SC 22 therefore instructs its Chair to recommend to ITTF that the following series of standards be packaged as one POSIX Package for sale in the ISO On-Line Store:

- ISO/IEC 9945-1: 2003, Information technology – POSIX – Part 1: Base definitions
- ISO/IEC 9945-2: 2003, Information technology – POSIX – Part 2: System interfaces
- ISO/IEC 9945-3: 2003, Information technology – POSIX – Part 3: Shell and utilities
- ISO/IEC 9945-4: 2003, Information technology – POSIX – Part 4: Rationale

*7 Yes, 1 No (Switzerland)*

### **Resolution 05-17: Rapid Final Processing of Standards**

JTC 1/SC 22, noting the following:

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- Resolution 04-04: Rapid Final Processing of Standards;
- the delay of the publication of ISO/IEC 1539-1, Programming languages – Fortran; and
- the delay of the publication of ISO/IEC TR 19767:2005, Enhanced Module Facilities

expresses its frustration with the continued delays in starting ballots and in publishing documents. Not only is this undesirable, it is also discouraging to any WG that has done work in a timely manner. JTC 1/SC 22 instructs its Chair to raise this matter at the JTC 1 Plenary and to speak to the ITTF about these concerns.

*Unanimous*

### **Resolution 05-18: POSIX Document Archival**

JTC 1/SC 22 instructs project editors of the following published or confirmed POSIX projects:

- ISO/IEC 9945: 2003 (all parts), Information Technology – POSIX
- ISO/IEC 14519: 2001, POSIX – Ada Binding for System API
- ISO/IEC 13210: 1999, Test Methods for Measuring Conformance to POSIX
- ISO/IEC 14515-1: 2000, Initial System API
- ISO/IEC 15287:2000, International Standardized Profiles (POSIX.13)
- ISO/IEC 15287-2: 2000, Standardized Application Environment Profile – Part 2: POSIX

to provide a copy of their document source to Keld Simonsen for archiving.

JTC 1/SC 22 further instructs project editors of the following cancelled or withdrawn POSIX projects:

- ISO/IEC 15068-2, POSIX System Administration Software Administration
- ISO/IEC TR 14252: 1996, Guide to POSIX Open Systems Environments
- ISO/IEC 14515-1/DAM1, Amendment 1 to ISO 14515-1:1996, Realtime Extensions
- ISO/IEC 14515-2: 2004, Shell and Utility Test Methods
- ISO/IEC TR 14766, Guide for POSIX National Profiles
- ISO/IEC 18011, POSIX Realtime Distributing Systems API
- ISO/IEC 9945-2/PDAM 1, POSIX – Amendment 1 on Batch Service Portability Extensions

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- ISO/IEC DIS 15068-3, POSIX System Administration User Administration
- ISO/IEC 9945-1/PDAM 5, POSIX – Amendment 5 to Portable Operating System Interface (POSIX) – Part 1: System API
- ISO/IEC 9945-1/PDAM 8, POSIX – Amendment 8 to Portable Operating System Interface (POSIX) – Part 1: System API
- ISO/IEC 9945-2/FPDAM 2, POSIX – Amendment 2 to IS 9945-2, Portable Operating System Interface (POSIX) – Part 2: Shell and Utility Security Administration
- ISO/IEC DIS 15879, Distributed Software Administration DCE-RPC Interoperability (XDSA/DCE)
- 22.21.03.01 POSIX System Administration (Umbrella work item)
- 22.15287.01, FPDISP for POSIX Supercomputing Application Environment Profiles
- 22.15287.02.01, Amendment 1 for IS 15287, International Standardized Profiles (POSIX.13)
- 22.15287.02.02, Amendment 2 for International Standardized Profiles (POSIX.13)

to provide a copy of all documents relevant to the canceled project (including any drafts) to Keld Simonsen for archiving.

*Unanimous*

### **Resolution 05-19: Endorsement of JTC 1/SC 22 N 3486, JTC 1/SC 22/WG 15 Procedures for Joint Development of Common Standards**

JTC 1/SC22 acknowledges the procedures entitled "Joint Development of Common Standards (JDOCS)", originally presented to it in JTC 1/SC 22 N 3486, are appropriate for the development of the ISO/IEC 9945 (POSIX) projects, and reaffirms them as the approved methodology for those projects.

*7 Yes, 1 No (Canada)*

### **Resolution 05-20: POSIX Charmap, Locales and Profiles Collection**

JTC 1/SC 22 notes recommendation 9 from JTC 1/SC 22 N 3864 (from the POSIX Advisory Group), and further notes that the I18NRG did consider this recommendation, but rejected making a further recommendation. Therefore, JTC 1/SC22 instructs the project editor for ISO/IEC 9945, POSIX, to make a recommendation on this item.

*Unanimous*



**Resolution 05-21: WG 15 (POSIX) Website**

JTC 1/SC 22 thanks Keld Simonsen for his untiring maintenance of the website and email archive for the now disbanded WG 15. Further, JTC 1/SC 22 asks Mr. Simonsen to continue to maintain this archive, noting on the website that WG 15 has been disbanded.

*Unanimous*

**Resolution 05-22: JTC 1/SC 22 Liaison Representative to JTC 1/SC 7**

At the request of JTC 1/SC 7 to create a liaison relationship with JTC 1/SC 22, JTC 1/SC 22 appoints James W. Moore as that liaison representative.

*Unanimous*

**Resolution 05-23: Internationalization Work**

JTC 1/SC 22 instructs its Chair to inform all national bodies and subcommittees under JTC 1 that despite the disbandment of JTC 1/SC 22/WG 20 (Internationalization), JTC 1/SC 22 continues to be willing to co-operate on any I18N issues.

*Unanimous*

~~**Resolution 05-24: Standing Agenda Item on I18N**~~

~~JTC 1/SC 22 instructs its Secretariat to include I18N as a standing agenda item on future JTC 1/SC 22 Plenaries until I18N presence on the agenda is deemed no longer necessary.~~

~~4 Yes, 4 No(US,UK,NL,JP) ... no support, FAILS~~

**Resolution 05-25: I18NRG**

JTC 1/SC 22 accepts all recommendations in JTC 1/SC 22 N 3945 (I18NRG Report).

*7 Yes, 0 No, 1 Abstain (Canada)*

**Resolution 05-26: Appreciation: Translation of JTC 1 Standards**

JTC 1/SC 22 recognizes that translation of its standards into a spoken language other than English has led to substantial improvements in the English version. JTC 1/SC 22 particularly wishes to thank Japan, Canada

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and France for their substantial contributions in this respect. JTC 1/SC 22 requests its Chair to report this to JTC 1.

*Unanimous*

### **Resolution 05-27: Standards Education**

JTC 1/SC 22 instructs its Chair to request JTC 1's support for further work on standards education following up on the work to occur in February 2006 in a workshop in Japan on standards education (as referenced in JTC 1/SC 22 N 3857).

JTC 1/SC 22 further instructs its Chair to request that JTC 1 provide its standards at no or nominal cost to students and teachers for educational purposes.

*Unanimous*

### **Resolution 05-28: ISO Advisory Group on Security**

JTC 1/SC 22 requests its Chair to inform JTC 1 of JTC /SC 22's concerns with regard to the Final Report of the ISO Advisory Group on Security (JTC 1/SC 22 N 3942). Specifically:

- The final report does not seem to address the full breadth of JTC 1's involvement in security
- JTC 1 should directly involve itself in the preparation of the proposed security guide.
- JTC 1/SC 22 is already involved in Security and Vulnerability issues. For example the projects on Programming Language Vulnerabilities initiated by James W. Moore and discussed by JTC 1/SC 22 at its September 2005 plenary.
- Because JTC 1/SC 27's scope specifically excludes mechanisms, it overlooks the role that JTC 1/SC 22 can provide through language and environment support.

JTC1's report on security should note JTC 1/SC 22's actions in this area.

*Unanimous*

### **Resolution 05-29: Authorization to Initiate an FPDAM Ballot for Ada**

JTC 1/SC 22 instructs its Secretariat to initiate an FPDAM ballot for ISO/IEC 8652: 1995, Ada, upon receipt of the text from the WG 9 (Ada) Convener.

*Unanimous*

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**Resolution 05-30a: Cancellation of the Revision ISO/IEC 15897, Procedure for the Registration of Cultural Elements**

JTC 1/SC 22 cancels the revision of ISO/IEC 15897, and instructs its Secretariat to inform ITTF of this decision.

*Canada requests letter ballot*

**Resolution 05-30b: Progression of the Revision of ISO/IEC 15897, Procedure for the Registration of Cultural Elements**

Should the text for the FDIS ballot of ISO/IEC 15897 be submitted to the JTC 1/SC 22 Secretariat by 31 October 2005, JTC 1/SC 22 instructs its Secretariat to submit this text to ITTF for FDIS balloting. If this text is received after 31 October 2005, JTC 1/SC 22 instructs its Secretariat to circulate the text only to JTC 1/SC 22 for information.

**Resolution 05-31: Appointment of Project Editors**

JTC 1/SC 22 approves the following appointments as SC 22 Project Editors:

- Malcolm Cohen (UK) for ISO/IEC 1539-1, Programming languages – Fortran
- P. J. Plauger (US) for ISO/IEC 24747, Extensions for the Standard Library of the Programming Language C to Support Mathematical Special Functions
- Andrew Josey (UK) for ISO/IEC 9945 (all parts), POSIX

*Unanimous*

**Resolution 05-32: Officer Appointments and Re-Appointments**

JTC 1/SC 22 approves the following Work Group Convener re-appointments:

- John Reid (UK), WG 5 – Fortran
- Willem Wakker (NL), WG 11 – Binding Techniques
- John Benito (US), WG 14 – C
- Taiichi Yuasa (JP), WG 16 – LISP
- Jonathan Hodgson (US), WG 17 - Prolog
- Herb Sutter (US), WG 21 – C++

JTC 1/SC 22 approves the following Work Group Convener appointment:

- Charles Stevens (US), WG 4 – COBOL

*Unanimous*

### **Resolution 05-33: Recommendations on Standards for the 2006 Periodic Review**

JTC 1/SC 22 instructs its Secretariat to issue a three-month letter ballot along with the recommendations of the Working Groups for recommendations for the 2006 Periodic Review:

- ISO/IEC 13751:2001 Information technology – Programming languages and their environments and System Software Interfaces – Programming Language – Extended APL
- ISO/IEC 13211-1:1995 Information technology – Programming languages – Prolog – Part 1: General core
- ISO/IEC 8652:1995 Information technology – Programming languages – Ada
- ISO/IEC 13817-1:1996 Information technology – Programming languages, their environments and system software interfaces – Vienna Development Method – Specification language – Part 1: Base language
- ISO/IEC 13886:1996 Information technology – Language-Independent Procedure Calling (LIPC)
- ISO/IEC 10967-2:2001 Information technology – Language independent arithmetic – Part 2: Elementary numerical functions
- ISO/IEC 14519:2001 Information technology – POSIX Ada Language Interfaces – Binding for System Application Program Interface (API)
- ISO 6160:1979 Programming languages – PL/1
- ISO 7185:1990 Information technology – Programming languages – Pascal
- ISO/IEC 10279:1991 Information technology – Programming languages – Full BASIC
- ISO/IEC 10206:1991 Information technology – Programming languages – Extended Pascal
- ISO/IEC 6522:1992 Information technology – Programming languages – PL/1 general purpose subset
- ISO/IEC 10514-1:1996 Information technology – Programming languages – Part 1: Modula-2, Base Language

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JTC 1/SC 22 instructs its Secretariat to inform both the JTC 1 Secretariat and ITTF of these recommendations.

*Unanimous*

### **Resolution 05-34: JTC 1/SC 22 Plenary for 2006**

JTC 1/SC 22 thanks the United Kingdom for its generous offer to host the 2006 Plenary and is pleased to accept the offer. The Plenary is scheduled at the BSI Facilities in London, England, during the week of 18 September 2006.

*Unanimous*

### **Resolution 05-35: Future JTC 1/SC 22 Plenaries**

JTC 1/SC 22 encourages national bodies and liaison organizations to volunteer to host future JTC 1/SC 22 Plenaries.

*Unanimous*

### **Resolution 05-36: Vocabulary**

JTC 1/SC 22 notes with gratitude the work undertaken by Roger Scowen and the Canadian Translation Bureau with regard to vocabulary, and understands the magnitude of that undertaking. JTC 1/SC 22 recommends that work continue to identify a suitable home for a vocabulary database, noting especially the offers and suggestions from several national bodies and liaison organizations, and invites proposals for JTC 1/SC 22's consideration at the 2006 Plenary.

JTC 1/SC 22 instructs its Chair to inform JTC 1 that the terminology exercise between JTC 1/SC 22 and the Canadian Translation Bureau has shown

1. Collecting existing definitions from current standards is sometimes a trivial exercise and sometimes labour intensive.
2. Review and translation by experts (e.g., the Canadian Translation Bureau) discloses inconsistencies, ambiguities, and unnecessary diversity.
3. Removing the deficiencies is an exercise for which manpower is probably not available.
4. The results, a descriptive definition of (specialized) usage, are nevertheless valuable to many people.

JTC 1/SC 22 believes that the exercise is worthwhile and that volunteers will come forward if they realize that the results will be freely available.

### **Resolution 05-37: Readability of JTC 1 Documents**

JTC 1/SC 22 recommends that the JTC 1 Directives should include a general instruction that all JTC 1 documents be written with due regard to their intended readership. In particular, readers often need a table defining acronyms and a reference to a suitable dictionary of terms.

JTC 1/SC 22 recommends that when a group circulates the results of its work widely (e.g., JTC 1/SC 22 N 3940, JTC 1 N 7824 Web Services Study Group Meeting Report), that group should provide an introduction or background section.

JTC 1/SC 22 instructs its Chair to make these recommendations known to JTC 1.

*Unanimous*

### **Resolution 05-38: Research Presentations**

JTC 1/SC 22 requests its Secretariat to forward the documents on which the presentations by Dr. Tineke Egyedi were based to JTC 1 for information.

*Unanimous*

### **Resolution 05-39: Naming of Other Working Groups**

JTC 1/SC 22 resolves that "OWG: <function name>" be the naming convention for future OWG's in JTC 1/SC 22.

*Unanimous*

### **Resolution 05-40: JTC 1 Directives Feedback**

JTC 1/SC 22 notes the following concerns regarding the JTC 1 Directives:

- the requirement for unanimous consent for conducting teleconferences may encourage obstruction,
- the applicability of teleconferencing exclusively to OWGs prohibits its use in other areas that could benefit significantly

JTC 1/SC 22 instructs its Chair to request that JTC 1 consider these concerns in the forthcoming revisions of the Directives.

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JTC 1/SC 22 makes effective use of electronic media and would be willing to consider being a test case for implementation of a broader policy.

*Unanimous*

**Resolution 05-41: Acknowledgements from the Ad Hoc on the JTC 1 Directives**

JTC 1/SC 22 thanks the following members for their participation in the Ad Hoc on JTC 1 Directives: Charles Stevens, James W. Moore, Bill Seymour, Nick Stoughton, Rex Jaeschke, Keld Simonsen, Alain La Bonté, Stephen Michell, Nobuyoshi Mori, John Benito, Jon Diamond, John Hill, Willem Wakker, Kiyoshi Ishihata, Shizuo Goto, Akio Kido, Tineke Egyedi and Toshiaki Kurokawa.

*Unanimous*

**Resolution 05-42: Appreciation: Convener of JTC 1 Directives Ad Hoc**

JTC 1/SC 22 expresses its gratitude to the Convener of the JTC 1 Directives Ad Hoc, Scott Jameson, for his presentation and leadership of the group.

*Unanimous*

**Resolution 05-43: Acknowledgement from the Ad Hoc on Future Directions for JTC 1/SC 22**

JTC 1/SC 22 thanks the following members for their participation in the Ad Hoc on Future Directions of JTC 1/SC 22: Charles Stevens, James W. Moore, Bill Seymour, Nick Stoughton, Rex Jaeschke, Keld Simonsen, Alain La Bonté, Stephen Michell, Nobuyoshi Mori, John Benito, Jon Diamond, Francis Glassborrow, John Hill, Scott Jameson, Willem Wakker, Kiyoshi Ishihata, Shizuo Goto, Akio Kido, and Toshiaki Kurokawa.

JTC 1/SC 22 also thanks all attendees of the 31 March 2005 meeting for their contributions and ideas for future work.

*Unanimous*

**Resolution 05-44: Appreciation: Convener of the JTC 1/SC 22 Ad Hoc on Future Directions for JTC 1/SC 22**

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JTC 1/SC 22 expresses its gratitude to the Convener of the Ad Hoc on  
Future Directions for JTC 1/SC 22, Jonathan Hodgson, for his leadership  
of the group.

*Unanimous*

**Resolution 05-45: Appreciation: Presenter on Standards  
Research**

JTC 1/SC 22 expresses its gratitude to the presenter to the Future  
Directions of JTC 1/SC 22 Ad Hoc, Dr. Tineke Egyedi, for her  
presentation.

*Unanimous*

**Resolution 05-46: Acknowledgement: Participants in the Break-  
out Session on the NP on “Guidance to Avoiding Vulnerabilities  
in Programming Languages through Language Selection and  
Use” and Research Reports**

JTC 1/SC 22 thanks the following members for their participation in the  
Break-out Session on the NP on Guidance to Avoiding Vulnerabilities in  
Programming Languages through Language Selection and Use and  
Research Reports: Tineke Egyedi, Herb Sutter, John Benito, John Hill, Jon  
Diamond, Detlef Vollmann, Alain La Bonté, Nobuyoshi Mori,  
Dietmar Kühl, Kiyoshi Ishihata, Shizuo Goto, James W. Moore, Toshiaki  
Kurokawa, Willem Wakker, Young W. Lee, Stephen Michell, George  
Staikos and Charles C. Stevens.

*Unanimous*

**Resolution 05-47: Appreciation: Convener of the Break-out  
Session on the NP on “Guidance to Avoiding Vulnerabilities in  
Programming Languages through Language Selection and Use”  
and Research Reports**

JTC 1/SC 22 expresses its gratitude to the Convener of the Break-out  
Session on the NP on “Guidance to Avoiding Vulnerabilities in  
Programming Languages through Language Selection and Use” and  
Research Reports, Jonathan Hodgson, and thanks him for his leadership.

*Unanimous*

**Resolution 05-48: Acknowledgement: Participants in the Break-  
out Session on JTC 1 Directives and Naming Conventions for  
OWGs**



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JTC 1/SC 22 thanks the following members for their participation in the Break-out Session on JTC 1 Directives and Naming Conventions for OWGs: Keld Simonsen, Willem Wakker, Sang Yong Han, Yong W. Lee, Shizuo Goto, Kiyoshi Ishihata, Dietmar Kühl, Nobuyoshi Mori, Detlef Vollmann, Jon Diamond, John Hill, John Benito, Tineke Egyedi, George Staikos, Stephen Michell, Alain La Bonté, Jonathan Hodgson, James W. Moore, Charles Stevens and Tom Plum.

*Unanimous*

**Resolution 05-49: Appreciation: Convener of the Break-out Session on JTC 1 Directives and Naming Conventions for OWGs**

JTC 1/SC 22 expresses its gratitude to the Convener of the Break-out Session on JTC 1 Directives and Naming Conventions for OWGs, Keld Simonsen, for his leadership of the group.

*Unanimous*

**Resolution 05-50: Appreciation: Convener of JTC 1/SC 22/WG 4 (COBOL)**

JTC 1/SC 22 expresses its gratitude to the Convener of JTC 1/SC 22/WG 4, Don Schricker, for his years of leadership of the working group.

*Unanimous*

**Resolution 05-51: Appreciation: Presenter to the JTC 1/SC 22 Plenary on Vocabulary**

JTC 1/SC 22 expresses its gratitude to the presenter to the JTC 1/SC 22 Plenary on Vocabulary, Natalie Cecile Ranger, Joseph Côté, and Karine Rondeau for their presentation.

*Unanimous*

**Resolution 05-52: Appreciation: Participants to the JTC 1/SC 22 I18N Rapporteur Group**

JTC 1/SC 22 expresses its gratitude to all participants to the JTC 1/SC 22 I18NRG for their contributions toward internationalization work.

*Unanimous*

**Resolution 05-53: Appreciation: Convener of the JTC 1/SC 22 I18N Rapporteur Group**

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JTC 1/SC 22 expresses its gratitude to the Rapporteur of the I18NRG,  
John Benito, for his leadership of the group.

*Unanimous*

**Resolution 05-54: Appreciation: Study Group on Vulnerability**

JTC 1/SC 22 expresses its gratitude to the participants of the Study  
Group on Vulnerability for their contributions on the work.

*Unanimous*

**Resolution 05-55: Appreciation: Convenor Study Group on  
Vulnerability**

JTC 1/SC 22 expresses its gratitude to the Convenor of the Study Group  
on Vulnerability, James W. Moore for his leadership of the group.

*Unanimous*

**Resolution 05-56: Appreciation: Web Master**

JTC 1/SC 22 expresses its gratitude to Keld Simonsen for his preparation  
of the electronically linked agenda during the meeting.

*Unanimous*

**Resolution 05-57: Appreciation: Network Hardware Provider**

JTC 1/SC 22 expresses its gratitude to the network hardware provider,  
Dinkumware Ltd., for providing the local networking hardware.

*Unanimous*

**Resolution 05-58: Appreciation: Meeting Host**

JTC 1/SC 22 expresses its gratitude to the meeting hosts, Maurya  
Software Inc., IBM, Standards Council of Canada, and Sun Microsystems,  
for the excellent meeting facilities and social event. In particular, JTC  
1/SC 22 expresses its gratitude to the event organizer, Stephen Michell.

*Acclamation*

**Resolution 05-59: Appreciation: Drafting Committee**

JTC 1/SC 22 expresses its appreciation to the resolutions drafting  
committee comprised of John Reid, Nick Stoughton, Stephen Michell, Rex

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Jaeschke, Toshiaki Kurokawa and Sally Seitz for their preparation of the  
resolutions.

*Acclamation*

**Resolution 05-60: Appreciation: JTC 1/SC 22 Chair**

JTC 1/SC 22 thanks its Chair, John Hill, for his leadership of the group.

*Acclamation*