

**ISO/IEC JTC 1/SC 22**  
**Programming languages, their environments and system software interfaces**  
**Secretariat: ANSI**

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## SC 22 Secretariat's Report -

### PART I: ADMINISTRATION

1.1 Title of SC    Programming languages, their environments and system software interfaces

1.2 Chairman     Mr. Rex Jaeschke (USA) (N4285)

1.3 Secretariat   USA (American National Standards Institute)

#### 2. Area of Work

Standardization of programming languages, their environments and systems software interfaces such as:

- specification techniques; and
- common facilities and interfaces

Excluded: specialized languages or environments assigned to the program of work of another Subcommittee or Technical Committee.

#### 3. Membership

"P" Members - 18

Canada, China, Denmark, Finland, France, Germany, Italy, Japan, Kazakhstan, Republic of Korea, Netherlands, Romania, Russian Federation, Spain, Switzerland, Ukraine, United Kingdom, United States of America

"O" Members - 24

Argentina, Austria, Belgium, Bulgaria, Cuba, Czech Republic, Egypt, Ghana, Greece, Hungary, Iceland, India, Indonesia, Islamic Republic of Iran, DPR of Korea, Kenya, Malaysia, Norway, Poland, Serbia, Singapore, Slovenia, Sweden, Thailand

Internal Liaisons (followed by liaison rep.)

JTC 1/SC2 (M. Ksar)

JTC 1/SC 7 (J. Moore and Dr. Kiyoshi Ogawa)

ISO/TC37 (K. Simonsen)

External Category A Liaisons

ECMA International (R. Jaeschke)

Free Standards Group (N. Stoughton)

Austin Joint Working Group (N. Stoughton)

4. Working Groups

- |     |          |   |
|-----|----------|---|
| 4.1 | WG4      | COBOL   |
|     | Convener | Wataru Takagi (JP) (2009 – N 4489)  |
|     | ToR      | Coordinate the development of ISO standards for Programming Language COBOL.   |
| 4.2 | WG5      | Fortran   |
|     | Convener | J. Reid (UK) (2008 – N4407)   |
|     | ToR      | Coordinate ISO/IEC Fortran Programming Language Standards   |
| 4.3 | WG9      | Ada   |
|     | Convener | J. Tokar (USA) (2007 - N4285)   |
|     | ToR      | Coordinate ISO standards for Programming Language Ada   |
| 4.4 | WG11     | Binding Techniques  |
|     | Convener | W. Wakker (Netherlands) (2008 – N4407)  |
|     | ToR      | Study binding issues between programming languages and the abstract facilities with which they interface or interact and to propose, develop and maintain ISO/IEC standards in this area. |
| 4.5 | WG14     | C   |
|     | Convener | J. Benito (USA) (2008 – N4407)  |
|     | ToR      | Coordinate the content of an ISO standard for C   |
| 4.6 | WG16     | Lisp  |
|     | Convener | T. Yuasa (Japan) (2008 – N4407)   |
|     | ToR      | Coordinate the content of an ISO standard for programming language Lisp   |
| 4.7 | WG17     | Prolog  |
|     | Convener | J. Hodgson (USA) (2008 – N4407)   |

- ToR            Develop the content of an ISO standard for Prolog
- 4.8    WG19        Formal Specification Languages  
 Convener    R. Scowen (2009 – N4489)  
 ToR            Develop the content of ISO standards for formal specification languages within the scope of SC22.
- 4.9    WG21        C++  
 Convener    H. Sutter (USA) (2010 – N4407)  
 ToR            Coordinate the development of an ISO standard for programming language C++
- 4.10   WG 23        Programming Language Vulnerabilities  
 Convener    J. Benito (USA) (2008 – N4407)  
 ToR            Address any issues related to programming language vulnerabilites
- 4.11   POSIX Advisory Group  
 Convener    S. Walli (USA) (2007)

#### 5. Outcome of Previous Meeting Resolutions

##### JTC1/SC 22 2009 Resolutions (Delft, the Netherlands)

<b>Resolution Number</b>	<b>Subject</b>	<b>Action</b>
09-01	Concern on JTC 1/SC 7 Proposal	-Email sent to W. Suryan (JTC 1/SC 7 Secretary) and F. Coallier (JTC 1/SC 7 Chair) on 23 September 2009.
09-02	Call for Experts to JTC 1/SC 7 Study Group	-Email Call for Experts sent to JTC 1/SC 22 on 23 September 2009. Call closes on 22 November 2009.
09-03	Request for an Extension of ISO/IEC NP 29113	-Email sent to JTC 1 Secretary on 23 September 2009 requesting extension. -JTC 1 9795 is default letter ballot for this. Closed on 24 December 2009 - Extension approved and sent to ITTF
09-04	Request for Withdrawal of ISO/IEC 13813	-Email sent to JTC 1 Secretary and ITTF on 23 September 2009 requesting the withdrawal. -JTC 1 9795 is default letter ballot for this. Closed on 24 December 2009 - Withdrawal approved and sent to ITTF
09-05	Request for an Extension on the ISO/IEC 10967 Series of Standards	-Email sent to JTC 1 Secretary on 23 September 2009 requesting extension.

		-JTC 1 9795 is default letter ballot for this. Closes on 24 December 2009 - Extension approved and sent to ITTF
09-06	Request for Extension of the Revision of ISO/IEC 14882	-Email sent to JTC 1 Secretary on 23 September 2009 requesting extension. -JTC 1 9795 is default letter ballot for this. Closes on 24 December 2009 - Extension approved and sent to ITTF
09-07	Request for JTC 1/SC 22 Archive Documents	Per the SC 22 Chairman, there are no other SC 22 archive documents available from the previous SC22 Secretariat.
09-08	Reconfirmation of External Liaisons and Liaison Representatives	-Email sent to liaison representatives and ITTF on 23 September 2009.
09-09	Reconfirmation of POSIX Advisory Group Convener	-Email sent to S. Walli with this information on 23 September 2009
09-10	Reconfirmation of Organizational Representatives to Austin Joint Working Group	-Email sent to A. Josey with this information on 23 September 2009.
09-11	Reconfirmation of Internal Liaisons and Liaison Representatives	-Email sent to ISO Helpdesk to give K. Simonsen access to JTC 1/SC 22 documents on 28 September 2009 -Email sent to Internal Liaison Committee Secretaries on 28 September 2009
09-12	Termination of Internal Liaison Between JTC 1/SC 22 and JTC 1/SC 32	-Email sent to JTC 1/SC 32 Secretary on 28 September 2009
09-13	Officer Appointments and Re-Appointments	-Secretary's Report updated on 28 September 2009 -Email sent to ISO Helpdesk to provide access for new WG 4 Convener to Live Link.
09-14	Approval of JTC 1/SC 22 Standing Document on Operating Procedures	-Email sent to ISO Helpdesk to have SD posted to "Featured Items" section of JTC 1/SC 22 Live Link site on 28 September 2009.
09-15	Alternative National Body Commenting Form	-JTC 1/SC 22 Secretary will follow these procedures
09-16	Netherlands Contribution on Growth of Programming Language Standards	-Email sent to all JTC 1/SC 22/WG Convener's reminding them of this resolution on 28 September 2009.
09-17	Request for Advance List of Standards for Systematic Review from ITTF	-Email sent to ITTF with this request on 28 September 2009. Email with all standards undergoing periodic review in 2011 was provided by ITTF and added to the SC 22 2010 Plenary Agenda.
09-18	JTC 1/SC 22 Plenary for 2010	-No action necessary
09-19	Hosting Future JTC 1/SC 22 Plenaries	-No action necessary
09-20	Encouragement for Information	-No action necessary

## PART II: MEETINGS

Last Plenary Documents            Delft, the Netherlands  
Resolutions – N4489 (Delft)

Next Plenary                            13-15 September 2010, Ottawa, Canada

Future Plenaries            2011, Copenhagen, Denmark

### Future WG Meetings

WG4	COBOL	1-4 February 2011, USA (tentative)
WG5	Fortran	27 June – 1 July 2010, Garching, Germany June 2010, Markham, Ontario, Canada June 2013, Delft, Netherlands June 2014, London, UK
WG9	Ada	18 June 2010, Valencia, Spain 28 October 2010 - Fairfax Virginia USA 24 June 2011 - Edinburgh Scotland
WG11	Bindings	
WG14	C	1-5 November 2010 Geneva, IL, USA
WG16	Lisp	
WG17	Prolog	20-21 July 2010, Edinburgh, Scotland July 2011, Lexington, KY
WG19	Formal Spec Lngs	
WG21	C++	2-7 August 2010, Rapperswil, Switzerland 8-13 November 2010, Batavia, IL, USA 21-26 March 2011, Madrid, Spain
WG 23	Vulnerability	28-30 June 2010, Kailua-Kona, HI 15-17 September 2010 Ottawa, Canada 14-16 December 2010 San Diego, CA, USA

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(Note that date in parentheses is date on which the Convener's appointment expires.)

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WG16 Lisp

Secretariat: JISC



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WG17 Prolog

Secretariat: ANSI

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WG19 Formal Specification Languages

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WG21 C++

Secretariat: ANSI

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WG 23                      Vulnerability

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#### Projects With No Editor

Because all of these projects are either published, confirmed, withdrawn, or cancelled, their maintenance shall fall under SC 22, and no new project editors need be nominated.

22.21.02.03 ISO 9945-2 POSIX CANCELLED

22.21.03.05 ISO/IEC 15068-3 POSIX System Administration User Administration CANCELLED

22.15879 ISO/IEC 15879 Distributed Software Administration DCE-RPC Interoperability CANCELLED

222.15287.01 ISO/IEC 15287-1 POSIX Supercomputing Application Environment Profiles CANCELLED

22.15287.02 Amendment 2 to ISP 15287-2 Extended Profiles CANCELLED

22.21.03.04 ISO/IEC 15068-2 PUBLISHED

22.10.04 ISO/IEC 13813 Ada Complex Functions PUBLISHED and CONFIRMED

22.10.05 ISO/IEC 13814 Generic Package of Complex Elementary Functions in Ada PUBLISHED and WITHDRAWAL REQUESTED

22.38 ISO/IEC TR 14252 Guide to POSIX Open Systems Environments PUBLISHED

22.18.02 ISO/IEC 10514-3 Object Oriented Extensions to Modula-2 PUBLISHED and CONFIRMED

22.14515-2 ISO/IEC 14515-2 Shell Utilities Test Methods PUBLISHED and  
CONFIRMED

22.21.03.01 POSIX System Administration (Umbrella Work Item) WITHDRAWN