# ISO/IEC JTC1/SC22/WG9 N543

### Detailed Agenda

*Revision 3 26 June 2014*

### Meeting #66 of ISO/IEC JTC1/SC22/WG9

**Friday 27 June 2014**

In accordance with Resolution 65-4 and the change of venue announcement ([N542](#N542)), the next meeting, meeting #66 will be conducted as a teleconference. For those delegates that are attending the [19th International Conference on Reliable Software Technologies Ada-Europe 2014](http://www.ada-europe.org/conference2014), a meeting room will be available to join the teleconference to be conducted from 09:00-12:30 Friday 27 June 2014 (Paris time).

The announcement and preliminary agenda for this meeting were circulated as [N540](#N540).

### AGENDA

[Opening Orders](#Opening)

[National Body Reports and Introductions](#_National_Body_Reports)

[Liaison Reports and Introductions](#LiasonReports)

* Ada Europe: Dirk Craeynest
* SIGAda: Rick Sward
* SC 23/OWGV: Erhard Ploedereder
* Fortran, INCITS/PL22.3: Van Snyder

[Convener's Report](#Convener)

[Project Editor Reports (as needed)](#PrjEd)

* IS 8652: Ed Schonberg and Randy Brukardt
* IS 15291: Bill Thomas and Greg Gicca
* TR 15942: Brian Wichmann
* IS 18009: Erhard Ploedereder
* TR 24718: Alan Burns

[Rapporteur Group Reports (as needed)](#RapRpt)

* Report of Ada Rapporteur Group: Jeff Cousins, Chair
* Report of Annex H Rapporteur Group: Alan Burns, Chair

[Review of Open Action Items and Unimplemented Resolutions](#OpenAIs)

[Committee as a Whole](#CAAW)

* Update to Ada Annex and SPARK Annex to the WG 23 Technical Report on Vulnerabilities (Burns, Ploedereder)
* Corrigendum for Ada 2012 (Brukardt, Cousins, Taft, Tokar)
* Meeting locations (Tokar)

[Unfinished Business](#UBiz)

[New Business](#NBiz)

[Scheduling of Future Meetings](#NextMeet)

[Administrative Actions](#Admin)

[Review of New Action Items](#NewActions)

[Review of New Resolutions](#NewResolutions)

[Final Consideration of Resolutions](#final)

[Recess](#recess)

### Opening Orders, Joyce Tokar, Meeting Convenor

* Call to Order
* Appointment of Meeting Secretary
* Approval of [Agenda](#Agenda)
* Welcome and Administrative Arrangements
* Approval of [N539](#N539): Meeting #65 Minutes – Resolution [66-1](#r1)

[AGENDA](#A1)

### National Body Reports

#### Attendees:

##### National Body Representatives:

|  |  |  |
| --- | --- | --- |
| Canada  | Brad Moore (HOD)  | Report |
| Germany | *TBA* (HOD)  | Report |
| Italy | Tullio Vardanega (HOD) | Report |
| Portugal | Miguel Pinho | Report |
| Spain | Juan Antonio de la Puente (HOD) | Report |
| Switzerland | Patrick Gautschi (HOD)  | Report |
| UK | Jeff Cousins (HOD), John Barnes | Report |
| USA | *TBD* (HOD), Randy Brukardt | Report |

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### Liaison Reports

**Ada-Europe Liaison Report:**

**Ada-Europe Liaison Representative, Dirk Craeynest**

**SIGAda Liaison Report:**

**SIGAda Liaison Representative, David Cook**

**WG 23 Liaison Report:
WG 23 Liaison Representative, Erhard Ploedereder**

**FORTRAN, INCITS/PL22.3 Liaison Report:**

**FORTRAN, INCITS/PL22.3 Liaison Representative, Van Snyder**

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### Convener's Report

### Activities since the Last Session

There has been a change in the rules regarding ISO Working Group participation and ISO is requiring all working groups to move their documents to LiveLink.

Resolution 30A of last year’s JTC1 meeting changes the participants in WGs from NB-endorsed to individual participation. This introduces new problems with respect to the rules for conduction WG meetings, as we are experiencing with this meeting.

In 2012, the ISO Technical Management Board (TMB) adopted TMB Resolution 64/2012 which made the use of Livelink mandatory for engaging in ISO technical work. By default in JTC 1, the LiveLink documents of a WG will be visible to the world.  Documents will only be protected if the WG specifically chooses a particular document to protect.  For example, even after moving to LiveLink, WG 9 and WG 23 will be able to see each other's documents, and outsiders will be able to see those documents as well.

If I upload all of our documents myself, then the date on the documents will become the date that I upload them. On the other hand, it is possible to work with ISO to upload the documents for us and preserve the dates. John Benito has been working on a solution using DropBox. Therefore, although there may still be some glitches in the implementation, we will need to move our documents up to LiveLink soon.

WG 9 agreed with the stabilization of the PCTE Ada binding standard ISO/IEC
13719-3:1998.

Bill Rinehuls, former SC 22 Chair, died 25 Mar 2014.

**Welcome**

#### Goals for this Meeting

The major objectives for this meeting are:

1. Ada 2012 proposals
2. Status on WG 23 and their Technical Report on Vulnerabilities – discussion during the Committee as a Whole session
3. Consideration of initiating a new work item to make SPARK an ISO standard – discussion during the Committee as a Whole session
4. Meeting locations – discussion during the Committee as a Whole session

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### Project Editor Reports

### ISO/IEC 15291 (ASIS)

### ISO/IEC 18009 (Conformity Assessment of an Ada Language Processor)

### IS 8652 (Information Technology--Programming Languages—Ada)

### TR 15942 (Guidance for the Use of Ada in High Integrity Systems)

### TR 24718 (Guide for the Use of the Ravenscar Profile in High Integrity Systems)

[AGENDA](#A5)

### Rapporteur Reports

**Rapporteur Report ARG:**

ISO/IEC JTC 1/SC 22/WG 9 is pleased to appoint Jeff Cousins (UK) as the new Rapporteur of the Ada Rapporteur Group. Resolution [66-5](#r5).

##### ISO/IEC JTC 1/SC 22/WG 9 expresses great appreciation to Ed Schonberg (US) for his enduring leadership of the ARG. Resolution [64-7](#r7).

Continuation of the ARG: Resolution [64-2](#r2).

**Rapporteur Report HRG:**

Continuation of the HRG: Resolution [64-3](#r3).

**Report of POSIX Rapporteur Group:**

Continuation of the PRG: Resolution [64-4](#r4).

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### Open Action Items and Unimplemented Resolutions

This is the "To Do" list for WG9. Some are informal action items assigned to various participants. Some are formal resolutions, which are not yet implemented. Some items are simply in suspense awaiting action by other groups.

#### Action Item 50-1:

Investigate the possibility that ANSI might be willing to sell the revised ASIS standard ISO/IEC 15291:200x inexpensively, i.e. at a price similar to that of programming language standards -- $18.

*Status:* Open. *It has been surprisingly difficult to obtain the appropriate contact information.* Bill Thomas will look into this further and get back to us at the next meeting (#54).

ANSI does not set the prices. If they get a standard from ISO, then ISO sets the price and ANSI must conform to the prices set by ISO. ANSI could designate another organization to sell an ISO standard, but the ISO price must still be satisfied.

Is there an alternative to investigate here to distribute non-standard materials? Also look into the steps that John Benito has taken to distribute the C standard.

Bill Thomas will investigate further and report back at meeting #63.

Stephen Michell will investigate further and report back at meeting #66.

**Action 63-3**

Determine if the IRTAW group is willing to update the ISO/IEC 15942 standard to be in alignment with Ada 2012. (Tullio Vardanega)

*Status: Open*

*Discussion:* Tullio has talked with Alan Burns but no further action has been taken at this time. Revisit at the next meeting.

**Action 63-6**

Dan Eilers will work with JP Rosen to provide a preliminary list of the issues that prevent public packages, libraries, and bindings from working on all compilers and provide this to Tucker Taft.

*Discussion:* No action at this time.

**Action 63-7**

Find out what compilers are validated against what versions of the Standard (Randy Brukardt, Dirk Craeynest).

*Discussion:* No action at this time

**Action 64-1:** JP Rosen (France) will investigate the possibilities of conducting Meeting #66 at AFNOR and report back to WG 9 no later than Meeting #65.

*Discussion:* Closed – WG 9 decided during meeting #64 that we would meet at the Ada-Europe conference venue. Further discussion during this meeting confirmed the decision to meet at the Ada-Europe conference venue and invite the AFNOR membership to participate in the meeting.

**Resolution** **64-12:**

ISO/JTC 1/SC 22/WG 9 will contact ISO/JTC 1/SC 22/WG 14 to enquire about developing a cooperative effort on parallel programming models, e.g., CPLEX, and report back to ISO/JTC 1/SC 22/WG 9 at Meeting #65.

*Discussion:* The work on CPLEX is being monitored by Tucker Taft, Steve Michell, Brad Moore, and Miguel Pinho. See Action Item 65-1.

**Action Item 65-1:** Taft, Moore, Michell, Pinho to develop and present plan on the way forward for WG9 with respect to the development of an API to OpenMP and/or CPLEX to be presented at the ARG meeting in June 2014.

**Action Item 65-2:** The Convenor of WG 9 will send a letter to AFNOR inviting them to attend the meeting at the Ada Europe conference location.

*Discussion:* AFNOR was contacted followed by considerable confusion ending in this meeting being conducted virtually.

**Action Item 65-3**: The Convenor will contact the FORTRAN Convenor and Richard Cook to determine what the process is for the generation of corrigenda and new revision and email the findings to the WG.

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### Committee as a Whole

* Ada 2012 Proposals (Brukardt, Cousins)
* Status on WG 23 and their Technical Report on Vulnerabilities (Burns, Ploedereder)
* SPARK as an ISO Standard (Dewar)
* Meeting locations (Tokar)

Unfinished Business

**New Business**

Scheduling of Future Meetings

The next meeting of WG9 will be held in conjunction with [High Integrity Language Technology 2014 (HILT 2014)](http://www.sigada.org/conf/hilt2014), 22 Oct 2014 in Portland OR, USA.

The next meeting of WG9 will be held in conjunction with the [20th International Conference on Reliable Software Technologies Ada-Europe 2015](http://www.ada-europe.org/conference2015), Friday morning <TBD> in <TBD>.

[Resolution 66-4](#r5)

[AGENDA](#AC)

**Administrative Actions**

#### Resolution 66-1:

The minutes of Meeting #65 contained in document [N539](#N539) are approved.

##### Resolution 66-2:

ISO/IEC JTC 1/SC 22/WG 9 continues its until the next plenary meeting and expresses its grateful appreciation to the Rapporteur and the members for their continuing service.

Jeff Cousins (UK) is appointed as Rapporteur.

The membership of the ARG is designated to be: Steve Baird (SIGAda), John Barnes (UK), Geert Bosch (US), Randy Brukardt (US), Alan Burns (UK), Jeff Cousins (UK), Robert Dewar (US), Gary Dismukes (US), Robert Duff (US), Pascal Leroy (France), Brad Moore (Canada), Erhard Ploedereder (Ada-Europe), Jean-Pierre Rosen (France), Ed Schonberg (US), Tucker Taft (US), and Tullio Vardanega (Italy).

The Convenor of WG 9 is authorized to act for WG 9 between meetings in appointing additional members of the ARG. In doing so, she shall consult with the Rapporteur and the National Body or Liaison Organization nominating the member.

Rapporteurs are permitted to allow other individuals to observe the deliberations of the Rapporteur Group. The admission of observers and the extent of participation permitted to observers are at the discretion of the Rapporteur with the concurrence of the membership of the Rapporteur Group.

##### Resolution 66-3:

ISO/IEC JTC 1/SC 22/WG 9 continues its Annex H Rapporteur Group until the next plenary meeting and expresses its grateful appreciation to the Rapporteur and the members for their continuing service.

Alan Burns (UK) is continued as Rapporteur.

The membership of the HRG is designated to be: Steve Baird (US), John Barnes (UK), Patrick de Bondeli (France), Alan Burns (UK), Rod Chapman (UK), Robert Dewar (US), Gary Dismukes (US), Bob Duff (US), Michael Gonzalez Harbour (Spain), Stephen Michell (Canada), Brad Moore (Canada), Miguel Pinho (Portugal), Erhard Ploedereder (Ada-Europe), Juan Antonio de la Puente (Ada Europe), George Romanski (SIGAda), Jean-Pierre Rosen (France), S. Tucker Taft (US), Tullio Vardanega (Italy), and Brian Wichmann (UK).

The Convenor of WG 9 is authorized to act for WG 9 between meetings in appointing additional members of the HRG. In doing so, she shall consult with the Rapporteur and the National Body or Liaison Organization nominating the member.

Rapporteurs are permitted to allow other individuals to observe the deliberations of the Rapporteur Group. The admission of observers and the extent of participation permitted to observers are at the discretion of the Rapporteur with the concurrence of the membership of the Rapporteur Group.

##### Resolution 66-4:

ISO/IEC JTC 1/SC 22/WG 9 schedules future meetings as follows:

Meeting #67, in conjunction with [High Integrity Language Technology 2014 (HILT 2014)](http://www.sigada.org/conf/hilt2014), 22 Oct 2014 in Portland OR, USA.

Meeting #68 in conjunction with the [20th International Conference on Reliable Software Technologies Ada-Europe 2015](http://www.ada-europe.org/conference2015), Friday morning <TBD>.

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#### Review of New Action Items

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### Review of New Resolutions

**Resolution 66-x:**

*TBD*

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### Final Consideration of Resolutions

#### Appreciation

**Resolution 66-8:**

ISO/IEC JTC 1/SC 22/W 9 expresses its grateful appreciation to Ada Europe for their gracious accommodations in providing a meeting room for those attending the teleconference for Meeting #66.

**Resolution 66-9:**

ISO/IEC JTC 1/SC 22/W 9 expresses its grateful appreciation to Clyde Roby for his continuing service in maintaining the WG 9 Web Page.

##### Resolution 66-10:

ISO/IEC JTC 1/SC 22/W 9 expresses its grateful appreciation to <TBD> for acting as secretary for Meeting #66.

##### Resolution 66-11:

ISO/IEC JTC 1/SC 22/WG 9 expresses its grateful appreciation to Joyce Tokar for convening Meeting #66.

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Recess –

The meeting ended at <TBD>. The Convenor recessed the meeting subject to her call. HODs may anticipate email ballots to be conducted during the months between this meeting and the next one.

[AGENDA](#AG)

## REFERENCES

### Relevant WG9 Documents

[ISO/IEC 8652:2012](http://www.iso.org/iso/home/store/catalogue_ics/catalogue_detail_ics.htm?csnumber=61507) Information Technology--Programming Languages—Ada

[ISO/IEC 8652:1995](http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=22983) Information Technology--Programming Languages—Ada

[ISO/IEC 8652:1995/COR.1:2001](http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=35451), Technical Corrigendum to Information Technology--Programming Languages—Ada

[ISO/IEC 8652:1995/AMD.1:2007](http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=45001), Amendment to Information Technology--Programming Languages—Ada

[N388](http://www.open-std.org/jtc1/sc22/wg9/n388.htm), Request for Subdivision of Project ISO/IEC 8652:1995

[N406](http://www.open-std.org/jtc1/sc22/wg9/n406.pdf), Procedures of the Ada Rapporteur Group

[N412](http://www.open-std.org/jtc1/sc22/wg9/n412.pdf), Instructions to the Ada Rapporteur Group from SC22/WG9 for Preparation of the Amendment to ISO/IEC 8652, 10 October 2002

[N414](http://www.open-std.org/jtc1/sc22/wg9/n414.pdf), Notification of Approval of Category C Liaisons between SC22/WG9 and Ada-Europe and SIGAda

[N416](http://www.open-std.org/jtc1/sc22/wg9/n416.htm), Charter of the Annex H Rapporteur Group (HRG)

[N417](http://www.open-std.org/jtc1/sc22/wg9/n417.htm), Charter of the ASIS Rapporteur Group (ASISRG)

[N423](http://www.open-std.org/jtc1/sc22/wg9/n423.pdf), Convener's Comments on Instructions to the Ada Rapporteur Group from SC22/WG9 for Preparation of the Amendment to ISO/IEC 8652, December 2002

[N437](http://www.open-std.org/jtc1/sc22/wg9/n437.pdf), ARG Rapporteur's Proposal for Defining Scope of Amendment to ISO/IEC 8652:1995, 9 April 2004

[N456](http://www.open-std.org/jtc1/sc22/wg9/N456.pdf), Convener Proposal for the Revision of the ASIS Standard, ISO/IEC 15291

[N457](http://www.open-std.org/jtc1/sc22/wg9/n457.pdf), Approved Plan for the Revision of the ASIS Standard, ISO/IEC 15291

[N459](http://www.open-std.org/jtc1/sc22/wg9/n459.txt), Disposition of Informal Comments Received on Editor's Draft of Amendment, 23 March 2006

[N460](http://www.open-std.org/jtc1/sc22/wg9/n460.pdf), Editor's Draft, Amendment 1 to ISO/IEC 8652, March 2006

[N462](http://www.open-std.org/jtc1/sc22/wg9/n462.pdf), JTC1 Directives, 5th edition, Version 2, April 2006 (JTC001-N-8122)

[N463](http://www.open-std.org/jtc1/sc22/wg9/n463.pdf), ISO/IEC Directives, Part 2, Rules for the structure and drafting of International Standards

[N464r](http://www.open-std.org/jtc1/sc22/wg9/n464r.pdf), 2nd Preliminary draft New Work Item Proposal for the Revision of ISO/IEC 15291, ASIS

[N465](http://www.open-std.org/jtc1/sc22/wg9/N465.pdf), Response of ISO/IEC JTC1/SC22/WG9 to SC22 Resolution 5-15

[N467](http://www.open-std.org/jtc1/sc22/wg9/n467.pdf), Submission of ISO/IEC 8652:1995/FPDAM 1 to SC22 for FPDAM ballot

[N468](http://www.open-std.org/jtc1/sc22/wg9/n468.pdf), Example approach for structuring the revised ASIS Standard

[N472](http://www.open-std.org/jtc1/sc22/wg9/n472.pdf), Proposal to Revise ISO/IEC 15291, Information technology - Programming languages - Ada Semantic Interface Specification (ASIS)

[N477](http://www.open-std.org/jtc1/sc22/wg9/n477.pdf), Canadian Contribution, Initial Work Scope Summary for updating Ada POSIX Bindings IS 14519:2001 to POSIX Draft IS 9945:2008 and Ada 2005.

[N479](http://www.open-std.org/jtc1/sc22/wg9/n479.pdf), SIGAda contribution, Clyde Roby, Notes of Birds-of-a-Feather session on POSIX-Ada Binding, conducted at SIGAda 2006, November 15, 2006, Albuquerque, NM, USA.

[N489](http://www.open-std.org/jtc1/sc22/wg9/n489.ppt), OWGV Summary 2008

[N490](http://www.open-std.org/jtc1/sc22/wg9/n490.htm), Minutes, Meeting #54 of ISO/IEC JTC1/SC22/WG9, Friday, 20 June 2008, Venice, Italy

[N491](http://www.open-std.org/jtc1/sc22/wg9/n491.htm), Convener's Report, 2008, ISO/IEC JTC 1/SC 22/WG 9 (Ada)

[N492](http://www.open-std.org/jtc1/sc22/wg9/n492.rtf), Announcement and Draft Agenda, Meeting #55 of ISO/IEC JTC 1/SC 22/WG 9, Thursday, 30 October 2008, Portland, Oregon, USA

[N493](http://www.open-std.org/jtc1/sc22/wg9/n493.htm), Detailed Draft Agenda, Meeting #55 of ISO/IEC JTC 1/SC 22/WG 9, Friday, 30 October 2008, Portland, Oregon, USA

[N494](http://www.open-std.org/jtc1/sc22/wg9/n494.htm), Draft Meeting Minutes, Meeting #55 of ISO/IEC JTC1/SC22/WG9, Thursday, 30 October 2008, Portland, Oregon, USA

[N495](http://www.open-std.org/jtc1/sc22/wg9/n495.htm), Draft Agenda, Meeting #56 of ISO/IEC JTC 1/SC 22/WG 9, Friday, 12 June 2009, Brest, France

[N496](http://www.open-std.org/jtc1/sc22/wg9/n496.doc), Detailed Agenda, Meeting #56 of ISO/IEC JTC 1/SC 22/WG 9, Friday, 12 June 2009, Brest, France

[N497](http://www.open-std.org/jtc1/sc22/wg9/n497.doc), Meeting Minutes, Meeting #56 of ISO/IEC JTC-1/SC-22/WG 9, Friday, 12 June 2009, Brest France

[N498](http://www.open-std.org/jtc1/sc22/wg9/n498.pdf), Instructions to the Ada Rapporteur Group from SC 22/WG 9 for Preparation of Amendment 2 to ISO/IEC 8652

[N499](http://www.open-std.org/jtc1/sc22/wg9/n499.doc), Announcement and Draft Agenda, Meeting #57 of ISO/IEC JTC1/SC22/WG9, Thursday, 5 November 2009, Tampa Bay, Florida

[N500](http://www.open-std.org/jtc1/sc22/wg9/n500.doc), Convener's Report, 2009, ISO/IEC JTC 1/SC 22/WG 9 (Ada)

[N501](http://www.open-std.org/jtc1/sc22/wg9/n501.doc), Detailed Agenda, Meeting #57 of ISO/IEC JTC1/SC22/WG9, Thursday, 5 November 2009, Tampa Bay, Florida

[N502](http://www.open-std.org/jtc1/sc22/wg9/n502.doc), Meeting Minutes, Meeting #57 of ISO/IEC JTC-1/SC-22/WG 9, Thursday 5 Nov 2009 in Tampa Bay, Florida.

[N503](http://www.open-std.org/jtc1/sc22/wg9/n503.doc), Announcement and Draft Agenda, Meeting #58 of ISO/IEC JTC1/SC22/WG9, Friday, 18 June 2010

[N504](http://www.open-std.org/jtc1/sc22/wg9/n504.doc), Detailed Agenda, Meeting #58 of of ISO/IEC JTC1/SC22/WG9, Friday, 18 June 2010

[N505](http://www.open-std.org/jtc1/sc22/wg9/n505.doc), ARG Rapporteur’s Proposal for Defining Scope of Amendment 2 to ISO/IEC 8652:1995, 4 June 2010

[N506](http://www.open-std.org/jtc1/sc22/wg9/n506.doc), Draft Letter to the Community

[N507](http://www.open-std.org/jtc1/sc22/wg9/n507.doc), Annex Ada to ISO/IEC JTC 1/SC 22/WG 23 N0238, Guidance to Avoiding Vulnerabilities in Programming Languages through Language Selection and Use, Draft 1, 20 June 2010

[N508](http://www.open-std.org/jtc1/sc22/wg9/documents.htm), Draft Minutes, Meeting #58 of ISO-IEC JTC-1 SC-22-WG 9, Friday, 18 June 2010, Valencia, Spain

[N509](http://www.open-std.org/jtc1/sc22/wg9/documents.htm), Convener's Report, 2009, ISO/IEC JTC 1/SC 22/WG 9

N510, Request for Subdivision of Project ISO/IEC 8652:1995

[N511](http://www.open-std.org/jtc1/sc22/wg9/documents.htm), Announcement and Draft Agenda, Meeting #59 of ISO/IEC JTC 1/SC 22/WG 9, Thursday afternoon, 28 October 2010, Fairfax, VA, USA

[N512,](http://www.open-std.org/jtc1/sc22/wg9/n512.doc) Ada Annex for the WG23 Technical Report on Software Vulnerabilities, Draft 2.

[N513](http://www.open-std.org/jtc1/sc22/wg9/n513.doc), Draft Detailed Agenda, Meeting #59 of ISO-IEC JTC-1 SC-22-WG 9, Thursday, 28 October 2010, Fairfax, VA

[N514](http://www.open-std.org/jtc1/sc22/wg9/n514.doc), Draft Minutes, Meeting #59 of ISO-IEC JTC-1 SC-22-WG 9, Thursday, 28 October 2010, Fairfax, Virginia, USA

[N515](http://www.open-std.org/jtc1/sc22/wg9/n515.doc), Announcement and Draft Agenda, Meeting #60 of ISO/IEC JTC 1/SC 22/WG 9, Friday morning 24 June 2011, Edinburgh, UK.

[N516](http://www.open-std.org/jtc1/sc22/wg9/n516.doc), ISO/IEC JTC 1/SC 22/WG 23 N0296 – Ada Annex to WG23 TR on Software Vulnerabilities.

[N517](http://www.open-std.org/jtc1/sc22/wg9/n517.doc), ISO/IEC JTC 1/SC 22/WG 23 N0275 – SPARK Annex to WG23 TR on Software Vulnerabilities.

[N518](http://www.open-std.org/jtc1/sc22/wg9/n518.doc), Draft Detailed Agenda, Meeting #60 of ISO-IEC JTC-1 SC-22-WG 9, Friday, 24 June 2011, Edinburgh, UK.

[N519](http://www.open-std.org/jtc1/sc22/wg9/n519.doc), Draft Minutes, Meeting #60 of ISO-IEC JTC-1 SC-22-WG 9, Friday, 24 June 2011, Edinburgh, UK.

[N520](http://www.open-std.org/jtc1/sc22/wg9/n520.doc), Convenor's Report, 2010, ISO/IEC JTC 1/SC 22/WG 9 (Ada).

[N521](http://www.open-std.org/jtc1/sc22/wg9/n521.doc), Announcement and Draft Agenda, Meeting #61 of ISO/IEC JTC 1/SC 22/WG 9, Thursday afternoon, 10 November 2011, Denver, CO, USA.

[N522](http://www.open-std.org/jtc1/sc22/wg9/n522.doc), Draft Minutes, Meeting #61 of ISO-IEC JTC-1 SC-22-WG 9, Thursday, 10 November 2011, Denver, CO, USA.

[N523](http://www.open-std.org/jtc1/sc22/wg9/n523.xls), Responses to JTC 1/SC 22/WG 9/National Body Comments on Draft revision of the Ada Standard

[N524](http://www.open-std.org/jtc1/sc22/wg9/n524.doc), Detailed Agenda Meeting #62 of ISO/IEC JTC1/SC22/WG9 Friday 15 June 2012 in Stockholm, Sweden.

[N525](http://www.open-std.org/jtc1/sc22/wg9/n525.doc), Draft Minutes, Meeting #62 of ISO-IED JTC-1 SC-22 WG-9. Friday 15 June 2012, Stockholm, Sweden.

[N526](http://www.open-std.org/jtc1/sc22/wg9/ISO_IEC_JTC1_SC22_WG9_N526-8652-DIS.pdf), ISO/IEC JTC 1/SC 22 N Date: 2012-03-30 ISO/IEC CD 8652.

[N527](http://www.open-std.org/jtc1/sc22/wg9/ISO_IEC_JTC1_SC22_WG9_N527-8652-DIS.pdf), ISO/IEC JTC 1/SC 22 N Date: 2012-05-18 ISO/IEC WD 8652.

[N528](http://www.open-std.org/jtc1/sc22/wg9/ISO_IEC_JTC1_SC22_WG9_N528-8652-DIS.pdf), ISO/IEC JTC 1/SC 22 N Date: 2012-06-06 ISO/IEC DIS 8652.

[N529](http://www.open-std.org/jtc1/sc22/wg9/n529.doc), Convenor's Report, 2011, ISO/IEC JTC 1/SC 22/WG 9 (Ada).

[N530](http://www.open-std.org/jtc1/sc22/wg9/n530.doc), Meeting #63 Announcement and Draft Agenda.

[N531](http://www.open-std.org/jtc1/sc22/wg9/n531.doc), Detailed Agenda, Meeting #63 of ISO/IEC JTC 1/SC 22/WG 9, Friday 7 Dec 2012, Boston, USA

[N532](http://www.open-std.org/jtc1/sc22/wg9/n532.doc), Meeting Minutes Meeting #63 of ISO/IEC JTC 1/SC 22/WG 9 Friday 7 December 2012 in Boston, USA

[N533](http://www.open-std.org/jtc1/sc22/wg9/n533.doc), Meeting #64 Announcement and Draft Agenda, Friday 14 June 2013, Berlin, Germany

[N534](http://www.open-std.org/jtc1/sc22/wg9/n534.doc), Draft Detailed Agenda, Meeting #64 of ISO/IEC JTC 1/SC 22/WG 9, Friday 14 June 2013 in Berlin, Germany

[N535](http://www.open-std.org/jtc1/sc22/wg9/n535.doc), Draft Meeting Minutes Meeting #64 of ISO/IEC JTC 1/SC 22/WG 9, Friday 14 June 2013 in Berlin, Germany

[N536](http://www.open-std.org/jtc1/sc22/wg9/n536.doc), Convenor's Report, 2012, ISO/IEC JTC 1/SC 22/WG 9 (Ada)

[N537](http://www.open-std.org/jtc1/sc22/wg9/n537.doc), Meeting #65 Announcement and Draft Agenda

[N538](http://www.open-std.org/jtc1/sc22/wg9/n538.doc), Draft Detailed Agenda, Meeting #65 of ISO/IEC JTC1/SC22/WG9, Friday 15 November 2013 in Pittsburgh, PA, USA

[N539](http://www.open-std.org/jtc1/sc22/wg9/n539.doc), Draft Meeting Minutes Meeting #65 of ISO/IEC JTC 1/SC 22/WG 9, Friday 15 November 2013 in Pittsburgh, PA, USA

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[N541](http://www.open-std.org/jtc1/sc22/wg9/n541.doc), Convenor's Report to INCITS

[N542](http://www.open-std.org/jtc1/sc22/wg9/n542.doc), Meeting #66 Change of Venue Announcement