

ISO/IEC JTC1/SC 22/WG 9 N614

Draft Minutes

Meeting #80 of ISO/IEC JTC 1/SC 22/WG 9

Monday, 19 April 2021 (virtual only)

Meeting #80 of WG 9 was held 19 April 2021. Per ISO guidance, the meeting was strictly virtual due to the COVID-19 pandemic. The meeting started at 14:05 UTC.

The detailed agenda was distributed as N613.

Remote access to the conference was available via WebEx.

AGENDA

[Opening Orders](#), Meeting Convenor

[Introductions and Reports](#)

[Liaison Reports and Introductions](#) (as needed)

- [Ada Europe](#): Dirk Craeynest
- [SIGAda](#): Drew Hamilton
- [WG 23](#): Erhard Plödereder
- [Fortran](#): Van Snyder

[Convenor's Report](#)

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

- [IS 8652](#): Jeff Cousins, Ed Schonberg, and Randy Brukardt
- [IS 15291](#): Bill Thomas and Greg Gicca
- [TR 15942](#): Alejandro Mosteo
- [IS 18009](#): Erhard Plödereder
- [TR 24772-2](#): Joyce Tokar
- [TR 24772-6](#): Stephen Michell, Erhard Plödereder, Tullio Vardanega

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

- [Report of Ada Rapporteur Group](#): Steve Baird, Chair
- [Report of Annex H Rapporteur Group](#): Joyce Tokar, Chair

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

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Recess

Opening Orders

Call to Order

Appointment of Meeting Secretary

Welcome and Administrative Arrangements

Code of Conduct

Approval of the [Agenda](#)

Approval of [N610](#): Meeting #79 Minutes.

Reports and Introductions

Austria – Johann Blieberger (HoD)

Canada – Brad Moore (HoD)

Finland – Niklas Holsti (HoD)

Italy – Tullio Vardanega (HoD)

Portugal – Luis Miguel Pinho (HoD)

Spain – Alejandro Mosteo (HoD)

Switzerland – Nicholas Kaethner (HoD)

UK – Jeff Cousins (HoD)

There has been little activity of the UK NB's Ada Panel other than John Barnes and the convenor (myself) reviewing the draft Ada 202x standard.

The UK NB no longer has a Committee Manager responsible for mirroring SC 22 so there is uncertainty about whether any vote from its Programming Languages Committee will be passed

on (for any language).

The UK NB confirmed the chairs of all the various programming language panels in December 2019, but it seems likely that in December 2022 we will all be expected to step aside for new people. It's not obvious that there are many people waiting in the wings for any languages other than C and C++.

The UK delegation is Jeff Cousins and John Barnes for this (virtual) meeting of WG 9.

USA – Tucker Taft (HoD)

Guests – ?

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Liaison Reports and Introductions

Ada Europe – Dirk Craeynest

Ada-Europe would like to inform the WG9 convener that its liaison delegation to Meeting #80, held online, on Monday 19 April 2021, will consist of Erhard Plödereder and Dirk Craeynest.

We want to inform everyone that the next Ada-Europe conference (AEiC 2021), initially scheduled to take place in Santander, Spain, will be held online from 7 to 10 June 2021, using the underline.io virtual conference platform.

The conference program includes 5 parallel tutorials on Monday 7th, a technical program and vendor exhibition from Tuesday 8th to Thursday 10th, as well as breaks and virtual social events that will allow networking among the participants. The program runs between 12:30 and 18:30 CEST, to allow participation from different time zones. The Call for Participation and full details on the conference web site [1] will be available shortly.

[1] <http://www.ada-europe.org/conference2021>

Ada-Europe is happy to report a continued healthy situation with the Ada User Journal (AUJ) [2]. Four issues are produced each year.

The COVID-19 pandemic had a dramatic impact on the production and publication of printed copies, including long closures of the printing and distribution facilities, and eventually forced us to move printing from Valencia, Spain, to Lisbon, Portugal. Therefore, the Ada-Europe Board decided to temporarily make the full AUJ issue available in its online archive, immediately upon publication instead of after the usual 1-year embargo. In the mean-time production of the physical copies has resumed, the backlog is being processed, and we hope by the next issue to return to the normal printing schedule.

[2] <http://www.ada-europe.org/auj>

SIGAda – Drew Hamilton

WG 23 – Erhard Plödereder

Since the last virtual WG9 meeting, WG23 has continued its schedule of weekly 3-hour conference calls plus occasional additional meetings, focusing on Parts of TR 24227 in turn. The present status is:

- Java is completed. Oracle has been contacted to review the Part. As yet, Oracle is hesitant (as most language groups are initially.) Further talk with Oracle are planned for June.
- Rod Chapman completed the work on the SPARK Part in collaboration with WG23. More on SPARK below.
- Little has been done to the Python Part, since Java took temporary precedence; still, WG23 expects it to be finished in 2021.
- C++ made steady progress. Less than ten vulnerabilities remain to be completed for a first draft of the entire document. As already reported, work progresses in GitHub now to accommodate the participation of more members of SG12 within WG21.
- Comments received on the Ada Part from WG9 have been reviewed by WG23. They were either resolved or left for WG9 for resolution. The Ada Part is now back (or will be shortly) with WG9 for further processing and decisions. See below.
- The transcription of TR 24772-1 into an International Standard (IS) is on hold, while assurances are sought from ISO/IEC that it will be made freely available. SC22 has joined forces with us in this attempt.

For the SPARK Part, WG23 invites WG9 to comment on the finished document. Further, WG23 suggests that WG9 decides whether WG9 wants to become the official home of SPARK-related standards activities, given its close relationship to Ada, and hence assume stewardship of the SPARK Part of 24772 as it did for the Ada Part.

For the Ada Part, WG23 recommends that the previous committee under the leadership of Joyce Tokar be reconvened to process the WG9 comments on the revised draft of an IS 24772-2.

Fortran, INCITS/PL22.3 – Van Snyder

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Convenor's Report Activities since the Last Session

1) With help from several people, I developed Document [N612](#) The Process for Creating the ISO Ada Standard Document. This document describes the process by which the Ada standard “source document” is produced and provided to ISO. This document will be given to SC 22 for the future, so that the institutional information is not lost. It will also serve as the official reference for the rights to access and print the “source document” and derived documents, should such questions arise in the future (they have already, once).

The SC 22 Chair, the SC 22 Committee Manager, and the US TAG Chair are all aware of the documented process and are on-board.

WG 9 needs to vote on whether to approve it.

2) The mechanism for commenting on Draft 29 is in place and the assignments have been made. Many thanks to the volunteers! Additional volunteers are still welcome (see the project README for the current assignments). The last day to submit comments is 21 May 2021 (approximately five weeks from today).

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Project Editor Reports (as needed)

IS 8652 (Information Technology--Programming Languages - Ada) (Jeff Cousins, Randy Brukardt)

IS 15291 (ASIS) (Bill Thomas, Greg Gicca)

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

IS 18009 (Conformity Assessment of an Ada Language Processor) (Tucker Taft)

Because ISO rules allow Erhard to be the editor after all, he has volunteered to resume his role as editor, and Tucker has agreed. We need a resolution to that effect, reversing Resolution 79-7.

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

TR 24772 (Guidance to avoiding vulnerabilities in programming languages – Vulnerability descriptions for the programming language Ada) (Joyce Tokar)

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Rapporteur Group Reports (as needed)

Rapporteur Report ARG

Rapporteur Report HRG

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Open Action Items and Unimplemented Resolutions

This is the "To Do" list for WG 9. 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.

AI-78-3: WG 9 members should individually prepare to discuss WG 9 work items after delivery of Ada 202x. Examples could include: additional activities for the HRG along reliability and security lines; co-joining efforts with the real-time workshops in order to produce standards-related documents; adoption of SPARK and its environments into the WG9 scope.

Status: Open

AI-79-1: Pat to set up the comment forum, perhaps Bitlocker.

Status: Closed. Using the GitHub project comments interface.

AI-79-2: Pat to send an email to WG 9 requesting reviewer volunteers. Randy, Steve, Pat, and Tucker will formulate a plan, with reviewer input.

Status: Closed (done).

AI-79-3: Pat to get copyright form from the SC 22 Committee Manager and coordinate on ensuring issue is resolved.

Status: Closed. The form is not required.

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Committee as a Whole

[AGENDA](#)

Unfinished Business

[AGENDA](#)

New Business

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Scheduling of Future Meetings

Virtual meetings, 29 June 2021 (after Ada-Europe General Assembly), and 20 September 2021. The time will be approximately the same as today's meeting but somewhat later.

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Review of New Action Items

AI-80-1: Joyce to contact previous members, if possible, and invite Tucker and Steve.

AI-80-2: All WG 9 members to review the SPARK Part after the Ada RM informal review completes.

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Final Consideration of Resolutions

Resolution 80-1: The meeting minutes of meeting #79 are approved.

Resolution 80-2: The next two meetings of WG 9 will be held 29 June 2021 and 20 September 2021.

Resolution 80-3: Erhard Plödereder will be made Editor for ISO 18009.

Resolution 80-4: Document N612, describing the process by which the Ada standard document is produced, is approved.

Resolution 80-5: WG 9 will be the official home of SPARK-related standards activities, and hence will be responsible for the WD 24772-6 SPARK Part.

Resolution 80-6: WG 9 will address their comments on the Ada Part of WD 24772. Joyce will reconstitute the original committee to the extent possible, adding new members as necessary, and will lead the effort. Niklas Holsti volunteered. Steve Baird and Tucker Taft were suggested.

Resolution 80-7:

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

Joyce Tokar is continued as Rapporteur.

The membership of the HRG is designated to be: Steve Baird, John Barnes, Ben Brosgol, Alan Burns, Rod Chapman, Gary Dismukes, Bob Duff, Michael Gonzalez Harbour, Stephen Michell, Brad Moore, Miguel Pinho, Erhard Plödereder, Juan Antonio de la Puente, George Romanski, Jean-Pierre Rosen, S. Tucker Taft, Joyce Tokar, and Tullio Vardanega.

The Convenor of WG 9 is authorized to act for WG 9 between meetings in appointing additional members of the HRG. In doing so, he 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 80-8:

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

Steve Baird is continued as Rapporteur.

The membership of the ARG is designated to be: Raphaël Amiard, Steve Baird, John Barnes, Randy Brukardt, Alan Burns, Arnaud Charlet, Jeff Cousins, Gary Dismukes, Claire Dross, Robert Duff, Edward Fish, Pascal Leroy, Brad Moore, Jean-Pierre Rosen, Ed Schonberg, Justin Squirek, Tucker Taft, Tullio Vardanega, and Richard Wai.

The Convenor of WG 9 is authorized to act for WG 9 between meetings in appointing additional members of the ARG. In doing so, he 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 80-9:

ISO/IEC JTC 1/SC 22/WG 9 expresses its grateful appreciation to Niklas Holsti for acting as secretary for Meeting #80.

Resolution 80-10: ISO/IEC JTC 1/SC 22/WG 9 expresses its grateful appreciation to Clyde Roby for maintaining the document list page.

Resolution 80-11: ISO/IEC JTC 1/SC 22/WG 9 expresses its grateful appreciation to the Convener, Pat Rogers.

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References

See <http://www.open-std.org/jtc1/sc22/wg9/documents.htm> for the WG 9 Document Log, including the ability to download the documents.