C63® American National Standards Committee C63®

Electromagnetic Compatibility
Subcommittee 2
E3 Terminology Definitions and Best Practices

Chair: Bob Channas **Vice Chair: Pedro Mendoza** **Secretary: Jerry Ramie**

May 6, 2026; 8:30 AM- 10:00 AM MDT
NIST, Boulder, CO
Zoom meeting

Approved Minutes

1. **Call to Order: Chair** - The meeting was called to order at 8:31 AM-MDT

   1.1 Announcements: Chair's remarks - Welcome to the meeting!

   1.2 Meeting logistics announcements: Host

   1.3 Introductions: Secretary – roll call (record attending members with their affiliations and guests separately below) **Report any roster errors to the ASC-C63® Secretary**) (insert SC2 membership roster from the website as shown below)

Subcommittee 2 Membership Roster

Name	Role in SC	Affiliation
Schaefer, Dave	SC8 Chair	Element Materials Technology
Braxton, Tom	SC5 Chair	ARRL (Expert)
Mendoza, Ernesto	SC3 Chair	Signify
Griffin, Andy	SC1 Chair	Cisco Systems (Primary)
Coder, Jason	~~SC7 Chair~~ Member	NIST
Abbondante, Nicholas	SC4 Chair	Intertek (Primary)
Hodes, Harry	Member	Consultant
DeLisi, Bob	C63® Chair	UL LLC (Primary)
Kramer, Doug	SC6 Chair	Apple Inc. (Technical Expert)
O'Neil, Janet	Member	ETS - Lindgren
Channas, Robert	SC2 Chair	DISA
Mendoza, Pedro G.	SC2 Vice Chair	DISA

Guests and Observers: (non-voting) Jerry Ramie, Dan Hoolihan, Henry Benitez, Aurelian Bria, Chad Beattie, David Chamberlain, Bill Koerner, Bob Channas, Thao Pao, Dave Schaefer, Ken Gjerde, Henry Benitez, Megan McConnell

AI-20260506-1: Jerry to add Omar Al-Kalaa to the SC2 roster as the new SC7 Chair

1.4 Quorum: (50% of roster + 1) constitutes a quorum. (rounding down) (**Example**: 12 roster members / 2 = 6 (therefore 6 people are required for a quorum) **Was quorum achieved? (Yes)** If not, any actions taken are subject to confirmation by electronic ballot or at a future meeting. (Quorum is not required for Working Group meetings)

2. **Approval of the Consent Agenda** (includes Agenda and Minutes of the previous meeting)**: Secretary** - The Agenda was approved by acclamation. (Approved Previous Minutes)

2.1 Review of the patent slides - The patent slides were shown and all agreed to the policies

3. Review of Subcommittee Membership - Report any errors to the ASC-C63® Secretary

3.1 Review of Membership Guidelines: Secretary

Subcommittees:
For an individual to remain a voting member of a Subcommittee, active participation in Subcommittee meetings and regular responses to Subcommittee email votes is required. Should a member fail to attend at least one of three consecutive scheduled meetings (in person or remotely via web conference (when used)) or respond to at least one of every two consecutive Subcommittee email votes, their membership in that Subcommittee may be at risk.

Note: Abstentions shall be treated the same as a "yes" or "no" vote regarding the requirement to respond to email votes.

Working Groups:
For an individual to remain a member of a Working Group, active participation is required. Should a member fail to attend at least one of three consecutive scheduled meetings (in person or via web conference (when used)) their membership in that Working Group may be at risk. Individual Working Groups may establish additional participation criteria and/or modify this requirement.

Member Attendance Log:

Name	05/17/2022	11/08/2022	05/10/2023	10/03/2023	05/15/2024	10/2/2024	5/5/2025
Bob Channas							X
Pedro Mendoza							X
Bob DeLisi	x	x	x	x	x	X	X
Andy Griffin		x	x	x	x	X	X
Ernesto Mendoza		x	x		x	X	X
Nick Abbondante	x	x	x	x	x	X	X
Tom Braxton	x	x		x	x	X	X
Doug Kramer		x	x	x	x	X	
Jason Coder	x	x	x	x	x	X	X
Dave Schaefer					x		x
Janet O'Neil			x	x	x	X	
Harry Hodes	x				x	x	

Any members at risk? None are at risk:

3.2 Consideration of new members? Application for C63® Subcommittee Membership

4. Approval of the Scope and Duties (To Be Approved by SC2 at their Spring Meeting)

Scope: E3 Terminology, Definitions, and Best Practices

Subcommittee 2 (SC2) is responsible for developing electromagnetic environmental effects (E3) terminology for C63® publications, and harmonizing the use of E3 terms with U.S. military and international standardization bodies. SC2 is also responsible for developing guidelines and best practices for application of C63®, other commercial, and U.S. military E3 standards.

Duties:

(1) ANSI C63.14, "American National Standard Dictionary of Electromagnetic Compatibility (EMC) including Electromagnetic Environmental Effects (E3) "

(2) ANSI C63.28, "American National Standard Guide to Best Practice Methodologies, Processes, and Procedures for Electromagnetic Compatibility (EMC)."- **Work suspended**.

Rosters: **Subcommittee 2 Roster** (shown above) **C63.14 (Definitions) Roster**

There were no objections to the Scope, Duties and Rosters, which were accepted.

4.1 Election of Officers –Current SC2 Officers and Terms:

- **Bob Channas, SC2 Chairman (12/31/2027)**
- **Pedro Mendoza, SC2 Vice Chair (12/31/2027)**
- **Jerry Ramie, SC2 Secretary (non-voting)**

5. Working Group reports - Chair - More information about each standard is available on the Standards Status Matrix page of the C63® web site. This information will be reviewed for accuracy at each Subcommittee meeting. WG reports shall be made using the C63_PowerPoint_template_wide.

5.1 WG1, C63.14 – Definitions - Channas, R. (no WG report) Verify accuracy of document status matrix content and report any errors to the ANSC-C63® Secretary.

C63.14-20XX Learn more	Definitions	SC 2	Channas, R.	C63.14 PINS	Standard under development

C63.14: C63.14-202XX American National Standard Dictionary of Electromagnetic Compatibility (EMC) including Electromagnetic Environmental Effects (E3)

Contact: R. Channas (Subcommittee Chair)
Scope: This standard provides definitions of terms associated with electromagnetic environmental effects including electromagnetic compatibility (EMC), electromagnetic pulse (EMP), and electrostatic discharge (ESD). In addition to definitions, several symbols and abbreviations are included.
Status: Current. New Standard under development.
Purchase: Not available for purchase

Is this information correct? (Yes) Jerry received a copy of C63.14-2023 as a PDF file. C63.14-2023 as DOCX file.on 4/12/2025.

Report: We're updating this document and have had two meetings so far. We have discussed 48 definitions, some have yielded questions. We spoke with C63.26 to resolve their definitions.

~~5.2 WG2, C63.28 – Best Practices for Electromagnetic Compatibility - Channas, R. (insert link to WG report) Verify accuracy of document status matrix content and report any errors to the ANSC-C63® Secretary.~~

~~We don't need to go to the Main Committee. The work is suspended so it just doesn't get worked on and can be removed from future agendas after the status matrix is confirmed at this meeting. At the Main Committee report it should be reported that per the October 2024 meetings work is suspended and if new interest arises work will be resumed.~~

~~C63.28-draft Learn more~~	~~Best Practices for Electromagnetic Compatibility~~	~~SC 2~~	~~Channas, R.~~	~~C63.28 PINS~~	~~Work has been suspended.~~

~~**C63.28-draft: American National Standard Guide for Best Practices for Electromagnetic Compatibility**~~

~~**Contact:** Channas, R. (Working Group Chair)~~

~~**Scope:** This guide provides comparisons of best practices that, based on past successes in a wide variety of settings and performed consistently, result in better performance, lower costs, and higher quality products with respect to EMC compliance.~~

~~**Status:** Work has been suspended.~~

~~**Purchase:** Not available for sale.~~

~~**Is this information correct? (Yes)**~~

5.3 ANSC-C63® Subcommittees & EMC Standards Projects

SC1: C63.2, C63.4, C63.4A, C63.5, C63.5 Corrigendum 1, C63.7, C63.23, C63.25.1, C63.25.2, C63.25.3
SC2: C63.14, C63.28
SC3: C63.12
SC4: C63.10, C63.10 Corrigendum, C63.10 Amendment 1, C63.26, C63.29, C63.30, C63.31,
SC5: C63.9, C63.15, C63.16, C63.24
SC6: C63.34
SC7: C63.17, C63.27, C63.27 Corrigendum, C63.36.TPC
SC8: C63.18, C63.19, C63.33

6. Other Old Business: Chair

6.1 Written reports - Written reports of this Subcommittee meeting shall be presented by the Subcommittee Chair at the Main Committee meeting. These reports shall be made using the C63®PowerPoint Template - Wide. Prior to the Main Committee meeting, the SC2 report shall be provided to the projectionist for showing on the screen at the Main meeting.

6.2 Coordination with SC2 for definitions - Before any Working Group draft can be submitted to Subcommittee for approval, the document must be provided to the SC2 Chair for evaluation and coordination of the definitions used.

7. New Business: Chair - none

7.1

8. C63.org website use and updates: Secretary - We normally post documents to the SC2 protected area. If any SC or WG needs help with this posting, a Technical Secretary is available to assist.

9. Review of the Action Items: Secretary

9.1 Review of Action Items from this meeting: Secretary - The Action Items from this meeting were reviewed by the Members.

9.2 Review of Action Items from previous meeting: Secretary - (insert consolidated Action Item table from the previous meeting Minutes as shown below)

Consolidated Action Items from the 20250505 Meeting of SC2

Action Item #	Subject	Responsible Person(s)	Status	Delivery Date	Comments
20250505-1	Jerry to populate the C63.14 roster and arrange a web-meeting	Jerry Ramie	Open	**Closed**	Populated and First meeting held 9/3

9.3 Review Newsletter input: The SC Presentation and any written report shall also be sent by the Subcommittee Chair to the ANSC-C63® Newsletter editor.

10. Time and place of next meeting: Chair - Week of Oct 19, 2026 at A2LA (Frederick, MD)
AI-20260506-2: Jerry, Bob & Pedro to meet by Webex and review how to get contact info for our groups.

11. Closing remarks and Adjournment: Chair - There was discussion of using Govt. AI to help with the C63.12 work. This will be considered in the Steering Committee. The Chair thanked the group for their contributions and adjourned the meeting at 9:07AM-MDT.

********** End of Meeting **********

Consolidated Action Items from the 20260506 Meeting of SC2

Action Item #	Subject	Responsible Person(s)	Status	Delivery Date	Comments
20260506-1	Jerry to add Omar Al-Kalaa to the SC2 roster as the new SC7 Chair	Jerry Ramie	Closed	Next meeting	Added 5/19
20260506-2	Jerry, Bob & Pedro to meet by Webex and review how to get contact info for our groups.	Jerry Ramie	Open	Next meeting	Training on site usage / access private roster