

C63[®] American National Standards Committee C63[®]

Electromagnetic Compatibility

Subcommittee 3: International Standardization

Chair: Ernesto Mendoza

Vice Chair: **VACANT**

Secretary: Jerry Ramie

Rohde & Schwarz USA, Coppel, TX
October 2, 2024; 10:00 AM – 11:15 AM - EDT

Approved Minutes

1. **Call to Order: Chair** - The meeting was called to order at 10:04AM-EDT
 - 1.1 **Announcements: Chair's remarks** – Welcome to the meeting!
 - 1.2 **Meeting logistics announcements: Host** (Vignesh had comments)
 - 1.3 **Introductions: Secretary – roll call** (attending members with their affiliations and guests are recorded separately below) (note **absences**, **excused absences** and **errors**)
 - 1.4 **Present membership: Report any roster errors to the ANSC-C63[®] Secretary**

Subcommittee 3 Membership Roster. See **errors**, **absences** and **excused absences** below:

| Name | Role within Subcommittee 3 | Affiliation |
|---------------------------|---|--|
| <u>Abbondante, Nick</u> | Liaison Member, SC4 Chair US CISPR/A Technical Advisor | Intertek (Primary) |
| <u>Braxton, Tom</u> | Chair Subcommittee 5 | ARRL (Expert) |
| <u>Coder, Jason</u> | Chair Subcommittee 7 | NIST (Primary) |
| <u>DeLisi, Bob</u> | Chair ANSC-C63 | UL LLC (Primary) |
| <u>Fanning, Craig</u> | Liaison Member CISPR/D Chair US CISPR/D Technical Advisor | Elite Electronic Engineering (Primary) |
| <u>Griffin, Andy</u> | Chair Subcommittee 1, TC77 TAG Advisor, US CISPR/H Technical Advisor | CISCO Systems (Primary) |
| <u>Hodes, Harry</u> | Member | Consultant (Individual) |
| <u>Hoolihan, Dan</u> | Member | Hoolihan EMC Consulting (Individual) |
| <u>Klinger, Jeff</u> | Member | Individual |
| <u>Kramer, Doug</u> | Chair Subcommittee 6 | Apple Inc. (Technical Expert) |
| <u>Mendoza, Ernesto</u> | Chair Subcommittee 3 US CISPR Technical Advisor US CISPR/DTA US CISPR/F Technical Advisor US CISPR/TC-77A/DTA US CISPR/TC-77 | Signify |
| <u>Popovici, Horia</u> | Member | Innovation, Science and Economic Development Canada (Alternate) |
| <u>Potts, Nate</u> | Member | Keysight Technologies (Primary) |
| <u>Shellman, Marcus</u> | Chair Subcommittee 2 | DOD – Joint Spectrum Center (JSC) (Primary) |
| Non-Voting Members | | |
| <u>Arnett, Dave</u> | Liaison Member US CISPR/I Technical Advisor | Garmin |
| <u>Cibulka, Michael</u> | Liaison Member | MC Lab Services |

| | | |
|----------------------------|--|-----------------------------------|
| Hofmann, H.R. (Bob) | Emeritus Member | Hofmann EMC Engineering |
| Jones, Steve | Emeritus Member | |
| Mahn, Terry | Liaison Member US CISPR/B Technical Advisor | Fish and Richardson |
| Pettit, Ghery | Liaison Member CISPR/I Chair | Pettit EMC Consulting, LLC |

Guests and Observers: (non-voting) Jerry Ramie, Aurelian Bria, Janet O'Neil, Steve Koster, Richard Reitz, Bill Graff, Ken Gjerde, Chad Beattie, Nate Potts, Steve Anderson, Henry Benitez, Victor Kuczynski, Randy Long, Harry Hodes, John Norgard, Vignesh Rajamani

1.5 Quorum: (50% of roster) constitutes a quorum. (rounding up) (14 roster members / 2 = 7 >> 7 (therefore 7 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](#) & [previous Minutes](#)): **Secretary** - The Consent Agenda was approved by acclamation. ([Previous Approved Minutes](#))

2.1 Review of the [patent slides](#) – The patent slides were reviewed and all agreed to abide by the policies shown.

3. Review of [Subcommittee Membership](#), - Report any errors to the Secretary

3.1 Review of Membership Guidelines

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.

Member Attendance Log: Any errors in the log?

| 12/3/20 | 3/3/21 | 5/26/21 | 8/25/21 | 12/15/21 | 3/2/22 | 5/17/22 | 11/8/22 | 2/22/23 | 5/10/23 | 10/3/23 | 5/15/24 | Full Name |
|---------|--------|---------|---------|----------|--------|---------|---------|---------|---------|---------|---------|------------------|
| x | x | x | x | x | x | x | x | x | x | x | x | Abbondante, Nick |
| | | | | | | | | | | x | x | Braxton, Tom |
| x | x | x | x | x | x | x | x | x | x | x | x | Carlton, Ross |
| x | x | x | x | x | | x | x | x | x | x | x | Coder, Jason |
| | x | x | x | x | x | x | x | x | x | x | x | DeLisi, Bob |
| | | x | x | x | x | x | x | | x | x | | Fanning, Craig |
| x | | x | x | | x | x | x | x | | x | | Griffin, Andy |
| | | | | | | | | | | | | Hodes, Harry |
| x | x | x | x | x | x | x | x | x | x | | x | Hoolihan, Dan |
| | | | | | x | x | x | x | x | x | x | Klinger, Jeff |
| | x | x | | x | x | x | x | x | x | x | | Kramer, Doug |
| x | x | x | a | x | x | a | x | a | x | x | x | Mendoza, Ernesto |
| x | | x | a | x | x | x | | x | | | x | Popovici, Horia |
| x | x | x | x | x | | x | x | | x | x | | Potts, Nate |
| a | x | | x | | | x | | x | x | | x | Shellman, M. |
| | | | | | | | | | | | | |
| | | | | x | | | | | | | | Arnett, Dave |
| x | x | x | x | | x | | | | x | | | Cibulka, Michael |
| x | | x | | x | x | | | x | | | | Hofmann, H.R. |
| | | x | x | | x | x | x | | x | | | Jones, Steve |
| | | | | | | | | | | | | Mahn, Terry |
| x | x | x | | a | x | x | | x | | x | | Pettit, Ghery |
| x | x | x | x | x | x | x | | x | x | x | x | Ramie, Jerry |

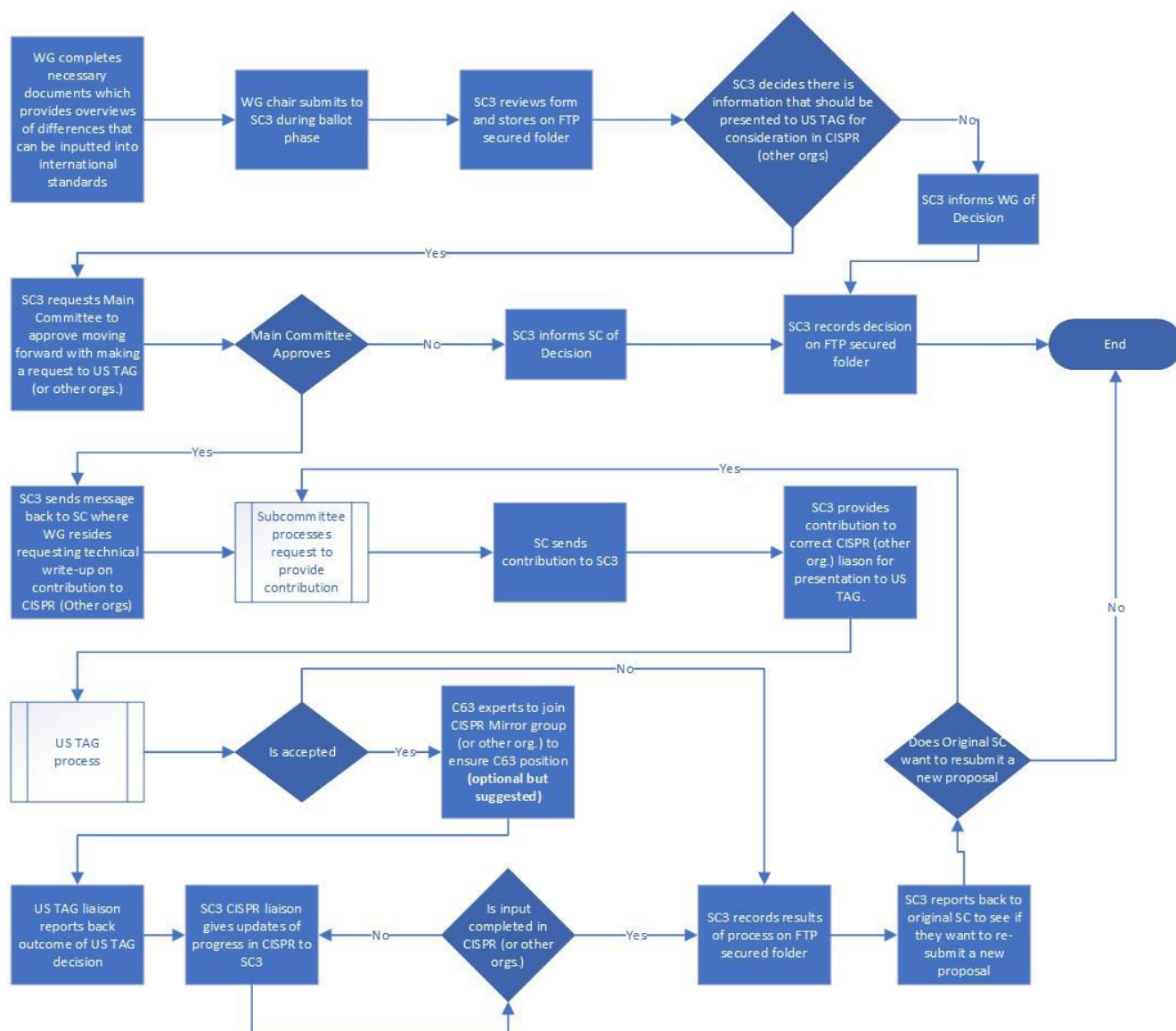
Any members at risk? **Harry Hodes** is at risk. Harry attended today and is no longer at risk.

3.2 Consideration of new members? [Application for C63® Subcommittee Membership](#)

4. Review of Scope, Duties and Membership – Chair (Spring Meeting only)

Subcommittee 3 (SC3) is responsible for promoting and facilitating harmonization of C63 publications with those developed by national and international standards bodies. SC3 establishes and maintains liaisons with these standards bodies or the appropriate national committee to facilitate coordination and cooperation. SC3 is also responsible for writing and maintaining existing and proposed C63 standards as assigned by the Main Committee American National Standards Committee (ANSC) C63.

Work Flow:–



Membership Criteria

There are two classes of membership: regular members and liaison members.

Regular Members:

For regular membership consideration, applicants are required to attach a resume to the application form highlighting their expertise in electromagnetic compatibility and the type of contributions they can provide of interest to Subcommittee 3. Subcommittee membership requires Subcommittee approval and a C63® vote and, if approved, notice of acceptance will be sent to the applicant. For name and address of the Subcommittee Chair and for Subcommittee projects, please see the Subcommittee listings on the C63® web site at www.C63.org

See "[Membership and Working Group Roster](#)" page for additional criteria for continued membership

Liaison Members:

Liaison members are special non-voting members as by virtue of their positions may be needed to conduct SC3 business that covers topics of the standards committees which they represent. The liaison members of

Subcommittee 3 consist of the technical advisors (TAs) and deputy technical advisors (DTAs) of the IEC USNC-TAGs which have as their main scope EMC topics. These members are approved by the regular members of the subcommittee and the parent committee as noted for regular members. Should the need arise to include additional liaison members during the year (in addition to those included on the SC membership list approved at the first C63® meeting of the year) as a result of special circumstances (i.e., the individual can contribute significantly to the work of the Subcommittee), liaison membership may be granted after approval by the Regular Members of the Subcommittee and a parent committee vote.

NOTE: Fees for membership, meetings, and other costs are covered in the general fee structure on the C63® web site. Liaison members will not have a regular membership fee but may be charged a meeting fee to offset meeting expenses.

Last Updated 05/31/2024

Subcommittee 3 Membership Roster

| Name | Role within Subcommittee 3 | Affiliation |
|---|--|---|
| <u>Abbondante, Nicholas</u> | Liaison Member, SC4 Chair US CISPR/A Technical Advisor | Intertek (Primary) |
| <u>Braxton, Tom</u> | Chair Subcommittee 5 | ARRL (Expert) |
| <u>Coder, Jason</u> | Chair Subcommittee 7 | NIST (Primary) |
| <u>DeLisi, Bob</u> | Chair ANSC-C63® | UL LLC (Primary) |
| <u>Fanning, Craig</u> | Liaison Member CISPR/D Chair US CISPR/D Technical Advisor | Elite Electronic Engineering (Primary) |
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| <u>Mendoza, Ernesto</u> | Vice-Chair Subcommittee 3 US CISPR Technical Advisor US CISPR/DTA US CISPR/F Technical Advisor US CISPR/TC-77A/DTA US CISPR/TC-77 | Signify |
| <u>Popovici, Horia</u> | Member | Innovation, Science and Economic Development Canada (Alternate) |
| <u>Potts, Nate</u> | Member | Keysight Technologies (Primary) |
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| <u>Hofmann, H.R. (Bob)</u> | Emeritus Member | Hofmann EMC Engineering |

| | | |
|-------------------------------|---|-----------------------------------|
| Jones, Steve | Emeritus Member | - |
| Mahn, Terry | Liaison Member- US CISPR/B Technical Advisor | Fish and Richardson |
| Pettit, Ghery | Liaison Member- CISPR/I Chair | Pettit EMC Consulting, LLC |

Motion to approve Scope, Duties and Membership?—

5. Status of harmonization projects - Chair

Status of harmonization of C63 documents with documents of other Standards Development Organizations (SDOs) is summarized in Table 1. Status is provided by the cognizant Subcommittee.

Table 1: ANSC-C63® Document Harmonization Summary

| ANSC-C63® | | | Other SDO | | Status |
|-----------|-----|------------------------------|---------------|---|--|
| Document | SC | Subject | Document | Harmonization Goal | |
| C63.16 | SC5 | ESD Guide | IEC 61000-4-2 | * Proposed Annex H is C63.16-2016 Clause 7 * Proposed Annex I subclause I.2 contains material from the fourth paragraph of C63.16-2016 Clause 9 and an excerpt from Figure 11. * Proposed Annex I subclause I.3 is C63.16-2016 subclause 6.4.5.2. * Proposed Annex I subclause I.4 is adapted from C63.16-2016 Annex A and includes Table A.2 and Table A.3. | Rejected by TC77 by 1/24/23 |
| C63.9 | SC5 | High-field Radiated Immunity | IEC 61000-4-3 | Smaller UFA | SC5 has not recommended C63.9 for harmonization with IEC 61000-4-3 |
| C63.29 | SC4 | High-power dimmers | CISPR-15 | proposal in summary slides next time; recognized US practice; Canada also has two classes of products (A&B) | CISPR 15 recently published |

6. Other Old Business: Chair

6.1 Existing harmonization project reports - Written or verbal reports of the status of harmonization projects and needs for liaison support shall be presented by the responsible Subcommittee Chair. Written reports shall be made using either the [C63 PowerPoint template](#) or the [C63 PowerPoint template wide](#). Prior to the SC3 meeting, the [SC report](#) shall be provided to the projectionist for showing on the screen at the SC3 meeting.

6.2 Liaison needs – Identify needs and potential candidates for liaisons to facilitate harmonization projects. Jason Coder proposed a liaison to ETSI for coexistence and unlicensed personal communication services. (C63.17 & C63.27) Did we take this up at the [SC7 meeting](#) last time?

6.3 Harmonization process – Discuss and develop harmonization processes and guidance for Subcommittees. Are there are additional clarifications needed? (others SCs) **Strike from next agenda**

7. New Business: Chair -

7.1 New harmonization projects – Discuss new harmonization projects for documents under development by the Subcommittees. See Table 1 above.

7.11 - New Harmonization Project - open - see above (C63.29)

7.2 Officer Appointment - Chair - We need a Vice Chair that's appointed by the Chair.

Candidates? (none)

7.3 CISPR Reports - Chair - These reports were shown:

[CISPR EME Fall2024](#)

[CISPR F EME Fall2024](#)

[CISPR Publications Links v2](#)

[CISPR D report for C63 October 2024](#)

[CISPR I Activity](#)

[CISPR H 2024](#)

8. **C63.org website use and updates: Secretary** - We normally post documents to the [SC3 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 previous meeting:

Consolidated Action Items from 5/15/24 Meeting of SC3

| AI # | Task | Responsible party | Due Date | Status |
|---------|--|----------------------------|--------------|---------------------|
| AI-161: | Ross to write to the liaisons to make them aware of SC3 efforts. | Ross Carlton E. Mendoza | Next meeting | Open |
| AI-162: | Chair to request links from liaisons to various dashboards as needed. | E. Mendoza | Next meeting | Closed |
| AI-164: | Ernesto to prepare a three-paragraph letter of new work for circulation to SC3 Members. | E. Mendoza | Next meeting | Open |
| AI-165: | Jerry & Bob to provide the spreadsheet and explanatory text for posting on SC3 landing page to Shannon | Jerry Ramie Bob DeLisi | Next meeting | Closed sent 5/20 |

We showed these presentations: CISPR CISPR-D CISPR-I CISPR-H (Andy) CISPR-F CISPR-SC1
This is what is currently at the bottom of the [SC3 landing page](#): [CISPR Technical Committee Dashboards](#)

Ernesto provided these links:

CISPR Dashboard: [IEC - CISPR Dashboard > Scope](#)

CISPR A: [IEC - CIS/A Dashboard > Projects / Publications: Work programme, Publications, Stability Dates, Project files](#)

CISPR B: [IEC - CIS/B Dashboard > Projects / Publications: Work programme, Publications, Stability Dates, Project files](#)

CISPR D: [IEC - CIS/D Dashboard > Projects / Publications: Work programme, Publications, Stability Dates, Project files](#)

CISPR F: [IEC - CIS/F Dashboard > Projects / Publications: Work programme, Publications, Stability Dates, Project files](#)

CISPR H: [IEC - CIS/H Dashboard > Projects / Publications: Work programme, Publications, Stability Dates, Project files](#)

CISPR I: [IEC - CIS/I Dashboard > Projects / Publications: Work programme, Publications, Stability Dates, Project files](#)

9.2 Review of Action Items from this meeting—Secretary - AI-166: Jerry to post the new links above provided by Ernesto

10. Next meeting: Chair – Week of May 5, 2025 at TUV in Boxborough, MA

11. Closing remarks and Adjournment: Chair - The Chair thanked the group and adjourned the meeting at 11:18AM-EDT.

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

Consolidated Action Items from 10/02/24 Meeting of SC3

| AI # | Task | Responsible party | Due Date | Status |
|----------------|---|---------------------------------------|-----------------|--|
| AI-161: | Ross to write to the liaisons to make them aware of SC3 efforts. | Ross Carlton E. Mendoza | Next meeting | Open |
| AI-164: | Ernesto to prepare a three-paragraph letter of new work for circulation to SC3 Members. | E. Mendoza | Next meeting | Open |
| AI-166: | Jerry to post the new links above provided by Ernesto | J. Ramie | Next meeting | Closed Links sent to Shannon for posting 10/7 |