

**Accredited Standards Committee C63<sup>®</sup>**  
**Electromagnetic Compatibility**

**SUBCOMMITTEE 2 – E3 Terminology Definitions**

**Tuesday, 17 April 2012, 1300 – 1530**  
**IEEE Headquarters**  
**Piscataway, NJ**

1. **Call to Order.** Mr. Marcus Shellman, SC2 Chairman, called the meeting to order.
  - 1.1. **Opening Remarks:** The chairman welcomed everyone to the meeting.
  - 1.2. **Self-Introductions:** The chairman requested introductions from the SC2 members and meeting participants. Meeting participants are identified in Attachment 1.
2. **Review and Adoption of Agenda.** The agenda was approved without changes. See Attachment 2.
3. **IEEE Patent Policy.** The chairman reviewed the standard IEEE Patent Policy as required.
4. **Review and Adoption of Minutes of Previous Meeting.** The chairman called for a review of the SC2 meeting minutes for the meeting held at Thompson Park, Lincroft, NJ on 05 October 2011. The minutes were approved without changes. The minutes will be forwarded to Mr. Ed Hare for posting onto the ASC C63<sup>®</sup> website.
5. **Membership Review.** The chairman presented the SC2 membership list that was approved at the last meeting. Two changes to the membership list were noted: Colin Brench is no longer a supported member and is to be removed; Harry Hodes is now organizationally affiliated with ACIL. The membership list was approved with the noted changes. See Attachment 3.
6. **Working Group 1 Report.**
  - 6.1. **C63.14 Draft Development:** Mr. Shellman presented a process chart to the subcommittee, developed by Mr. Southworth, intended to map out the decision process for acceptance of new definitions to C63.14. See Attachment 4. Mr. Southworth elaborated on the process outlined in the chart, which was well received by the subcommittee who also agreed that it should be introduced to the C63 main body, as a part of the SC2 Summary Report. In the discussion that followed, a question was raised about terms that will appear in the Informative Annex, and whether their definitions should appear in C63.14, an issue carried forward from the previous SC2 meeting. Mr. Southworth noted, however, that the chart identifies the C63.14 “customers,” as ANSI C63 standards and US DoD standards users, not users of the International Electrotechnical Vocabulary (IEV). Definitions for IEV

terms, therefore, should appear in C63.14 only if they are used in C63, or DoD standards. The Chairman had previously noted his intent to provide hyper links from the individual IEV terms back to the document for those needing to access the definition.

6.2. New Definitions: Mr. Shellman continued the meeting with a review of the individual new definitions under consideration. He displayed the terms as they appeared in the “Action Item Review, New Definitions,” that was distributed to SC2 members for review in advance of the meeting. His objective was to finalize the definitions and upon validation incorporate them into draft C63.14. The following terms / definitions were accepted and validated as modified by SC2:

- ? Standard - A document that establishes criteria, methods, and/or processes developed by a consensus based organization and used to verify product conformity, performance, interoperability and/or quality control;
- ? Specification - A document that prescribes the requirements, design, behavior, and/or characteristics of a system, equipment, or component in a complete, precise, verifiable manner;
- ? Broadband Emission – An emission that has a bandwidth greater than that of a particular measuring apparatus or receiver.

6.3. Definitions Under Development: The effort to reach consensus on definitions dominated the bulk of the extended meeting time for SC2. Definitions for “Broadband Device,” “Recommended Practice,” and several others have not yet been finalized. See Attachment 5 for the status of each definition under development.

## 7. Old Business.

7.1. Website Status: Mr. Shellman reported that Mr. Dilay has updated the SC2 Website.

7.2. Newsletter: Mr. Shellman reported that a Summary Report updating SC2 activities has been prepared and will be submitted to Mr. Warren Kesselmann for inclusion in the next C63 Newsletter.

7.3. Mr. Shellman reported he investigated the status of MIL-STD 1541, “Electromagnetic Compatibility Requirements for Space Systems,” in response to a question from Mr. Hodes at the last meeting. He reported the standard is still active.

## 8. New Business. None

9. **Action Item Review.**

- ? Mr. Silberberg to provide definitions for, “in-situ,” and, “on-site,” to the chairman for inclusion in new definitions development;
- ? SC2 members to propose new definitions for “Recommended Practices,” and “Broadband Device,” based on meeting discussion;
- ? Mr. Southworth to review military standards issued within the last five years for pertinent EMC definitions for inclusion into the draft.

10. **Next Meeting.** The next SC2 meeting is tentatively scheduled for 2:00 PM on Wednesday, October 3<sup>rd</sup> 2012. The next ASC C63<sup>®</sup> Parent Committee Meeting will be held Thursday, October 4<sup>th</sup>, 2012 at 8:30 AM in an undecided location in Orange County, CA.

11. **Adjournment.** The SC2 meeting was successfully completed as scheduled. The chairman adjourned the meeting at 1530.

**Attachment 1**

**SC2 Meeting Attendance List (April 17, 2012)  
IEEE Headquarters  
Piscataway, NJ**

<b>NAME</b>	<b>TITLE</b>
Marcus Shellman	Chair, SC2
Janet O'Neil	Vice Chair, SC2
Michael Duncanson	Secretary, SC2
Chris Dilay	Web Coordinator, SC2
Dave Southworth	Member
Ralph Showers	Member
Dan Hoolihan	ASC C63® Chair
Ed Hare	Vice Chair, SC5
Tom Knipple	Observer
Don Heirman	Member
Poul Anderson	Chair, SC3
Jerry Ramie	C63 Secretary

Attachment 2

**ANSI Accredited Standards Committee C63?  
Electromagnetic Compatibility  
Subcommittee2 – E3 Terminology Definitions**

**SC2 Meeting Draft Agenda for 17 April 2012  
IEEE Headquarters, Piscataway, NJ**

**Tuesday, 1:00 PM - 3:00 PM**

- 1. Call to Order and Opening Statement – Chair**
  - 1.1 Opening remarks and Announcements: (Chair)**
  - 1.2 Meeting logistics announcements: (Host: Don Heirman)**
  - 1.3 Introductions: (Secretary)**
- 2 Approval of the Agenda: (Secretary)**
- 3 Presentation of [patent slides](#): (Secretary)**
- 4 Presentation of [meeting attendance](#) fee slides: (Secretary)**
- 5 Approval of minutes of previous meeting: (Secretary)**
- 6 Review of [Subcommittee Membership](#): (Chair)**
  - 6.1 Review of membership – members at risk**
  - 6.2 Consideration of new members**
- 7 Working Group 1 report.**
  - 7.1 C63.14: Definitions**

Subcommittee 2 Chair: ([Marcus Shellman](#))  
Working Group Chair: ([Marcus Shellman](#))  
Status: Published standard. Revisions continuous as needed.

    - 7.1.1 ANSI C63.14-20XX Draft of 8/22/2011: (Chair)**
    - 7.1.2 New Definition Development (Acceptance voting results)**
    - 7.1.3 List of definitions in existing published and final draft C63<sup>®</sup> standards (Sub Committee Chairs/Members)**
    - 7.1.4 Addition of an Informative Annex (IEV and perhaps others)**

**8 Other Old Business: (Chair)**

**8.1 [C63.org](http://C63.org) website: Web Content Manager (Chris Dilay)**

**8.2 Definitions for “in-situ” and “on-site”(Mr. Silberberg)**

**8.3 Current status of MIL-STD-1541 (Mr. Hodes) (Mr. Shellman)**

**8.4 IEV prioritized lists of definitions for update of C63.14 (SC2 Members hip)**

**9 New Business: (Chair)**

**9.1 C63 Newsletter Input**

**10 Review open action items from this and previous meetings: (Secretary)**

**11 Time and place of next meeting: (Chair)**

**12 Closing remarks and Adjournment: (Chair)**

SC2 Chair: Marcus Shellman, Jr., [marcus.shellman@disa.mil](mailto:marcus.shellman@disa.mil)

SC2 Vice Chair: Janet O’Neil, [j.n.oneil@ieee.org](mailto:j.n.oneil@ieee.org)

SC2 Secretary: Mike Duncanson, [michael.duncanson@jsc-eses.com](mailto:michael.duncanson@jsc-eses.com)

SC2 Web Coordinator: Chris Dilay, [chris.dilay@navy.mil](mailto:chris.dilay@navy.mil)

**Attachment 3**

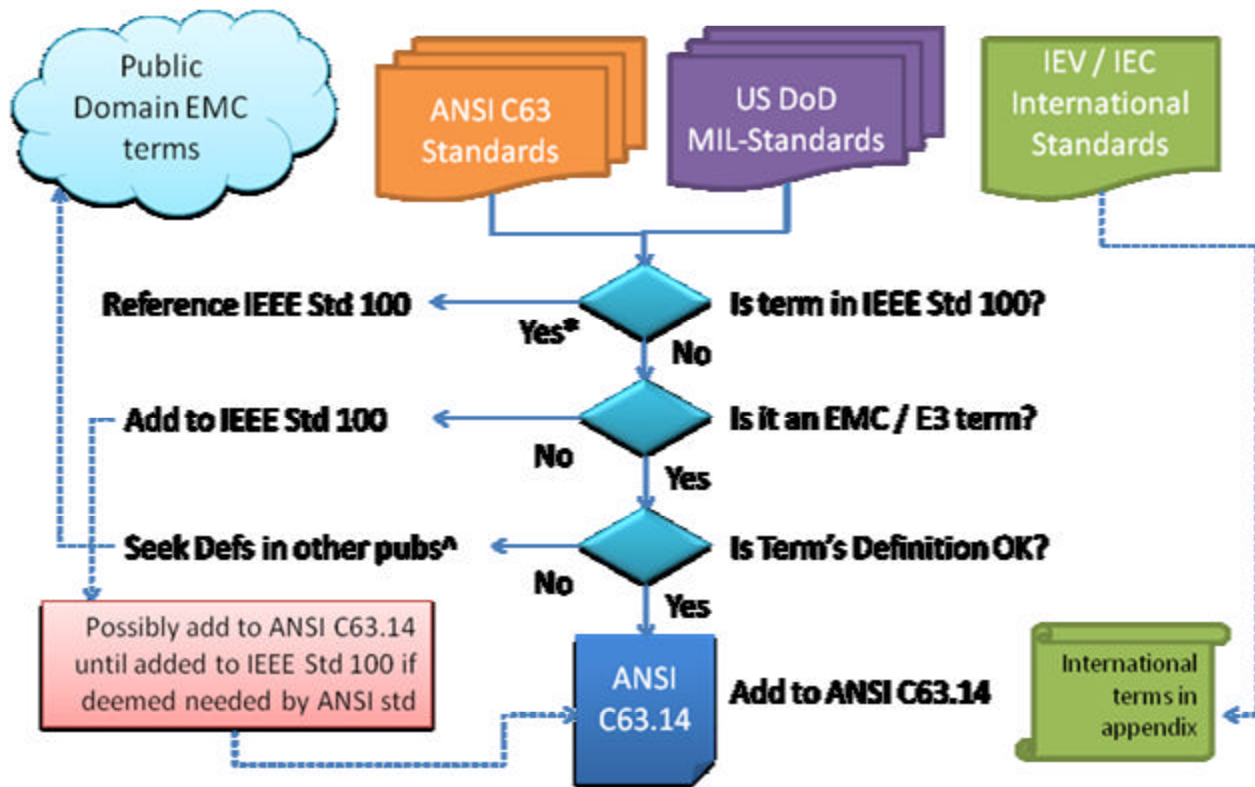
**SC2 Membership List**

Chairman – Marcus Shellman  
ASC C63<sup>®</sup> / SC2 Membership Roster

<b>NAME</b>	<b>TITLE</b>
Mr. Marcus Shellman	Chair, SC2 (WG1)
Ms. Janet O’Neil	Vice-Chair, SC2
Mr. Michael Duncanson	Secretary, SC2 (WG1)
Mr. Chris Dilay	Web Coordinator, SC2 (WG1)
Mr. Don Heirman	Member
Mr. Dan Hoolihan	Chair, C63 <sup>®</sup>
Mr. Dennis Camell	Chair, SC1
Mr. Poul Anderson	Chair, SC3
Mr. Ed Hare	Web Master, C63 <sup>®</sup>
Mr. Steve Whitesell	Chair, SC5
Mr. Victor Kuczynski	Chair, SC6
Mr. Stephen Berger	Chair, SC7
Mr. Bob DeLisi	Chair, SC8
Dr. Ralph Showers	Member
Mr. Bob Hofmann	Member
Mr. Harry Hodes	Member, WG1
Mr. Steve Koster	Member, WG1
Mr. Jerry Ramie	Member, WG1
Mr. Dave Schaefer	Member, WG1
Mr. Joe Snyder	Member, WG1

Attachment 4

• **Process for additions to ANSI C63.14**



**ANSI C63.14 "customers" are ANSI C63 Standardization and US DoD Standardization**

**\*Note: even if term is in IEEE Std 100, if it is a key EMC term can be added to ANSI C63.14**

**^Note: SC2 committee may revise definition to be more appropriate**



## Attachment 5

### Status of Definitions Under Development

1. “Recommended Practices.” - Two definitions were proposed, the second of which was chosen as the base, still requiring modification by the group for acceptance and validation: 2) “Best practices” or “guidelines” for methods, materials, or practices in order to give guidance to the user. These documents usually represent a leading edge, exceptional model, or a proven industry practice.” The chairman noted that, “guidelines,” is a document type unto itself and will need to have a definition addressed separately.
2. “Broadband Device.” - This terminology opened up significant discussion about the FCC definition for broadband, which as it turns out addresses the current benchmark for Internet Service Provider (ISP) upload and download speeds (FCC 10-129, 2010). Two definitions were proposed, the first of which was struck down, decidedly in need of a total rework. The second, which includes the FCC numbers, will be redone in a generic manner that deletes the ISP speed. The working definition is as follows: “A device capable of processing the spectral components of a particular broadband emission and capable of data transfer rates of at least 4 Mbps.”
3. “Broadband Measurement.” – A motion to delete this term from consideration was passed by voice vote after discussion on its relevance.
4. “Video Display” and “Monitor” – The chairman decided to table discussion on these terms until the next meeting.
5. “Cognitive Radio,” “Dynamic Spectrum Access,” and “Software Defined Radio,” - All have definitions in IEEE 1900.1-2008. The chairman decided that these terms are to be held in abeyance until they appear in an ANSI standard.