

Minutes
 IEEE-EMCS Standards Development Committee
 Thursday, March 16, 2006
 IEEE, Piscataway, NJ

1. Meeting called to order at 11:30 pm

Attendance

		Present	E-Mail
Committee Members			
Stephen Berger	Chair	X	stephen.berger@ieee.org
Colin Brench		X	Colin.brench@ieee.org
Nigel Carter			njcarter@qinetiq.com
Andrew Drozd		X	a.d.drozd@ieee.org
Ed Hare		X	W1rfi@arrl.org
Donald Heirman		X	d.heirman@ieee.org
Daniel Hoolihan		X	hoolihan@citlink.net
Elya Joffe			eb.joffe@ieee.org
Prof Risaburo Sato			sato@emc-rc.tao.go.jp
Werner Schaefer		X	wsemc@cisco.com
Ralph Showers		X	showers@seas.upenn.edu
David Staggs		X	Cmmdrzap@aol.com
Donald Sweeney		X	dsweeney@dlsemc.com
Kimball Williams		X	k.william@ieee.org
Perry F. Wilson			pfw@boulder.nist.gov
Michael Hart	Sec'y		mjhart@quantumchange.com
Kwok Soohoo		X	ksoohoo@us.ibm.com
Other Attendees			
Fred Heather	WGC	CC	heatherf@ieee.org
Warren Kesselman		X	w.kesselman@ieee.org
Shuichi Nitta		X	nitta@cc.tuat.ac.jp
Ghery Pettit		X	ghery.pettit@intel.com
Michael Violette		X	mikev@wll.com
John Norgard		X	john.norgard@rl.af.mil
Bruce Archambeau		X	barch@us.ibm.com
David Guzman		X	dguzman@rftek.net

2. The agenda was approved
3. A discussion was held regarding the request to review EMC standards specifications for the EAC and Homeland Security. A discussion was held as to the best EMC specifications and limits to recommend for these different purposes. Homeland Security EMC Requirements

Conducted immunity is set at 20V compared to 10V for industrial.

Minutes
IEEE-EMCS Standards Development Committee
Thursday, March 16, 2006
IEEE, Piscataway, NJ

Equipment covered here includes truck/container scanners not just personal scanning equipment. Definition of failure mode – can operator tell there is a problem. (similar for voting machines).

Is there a need for test to failure rather than just a test level pass to ensure failure mode is acceptable (i.e. no false votes or missed materials at a scanner). This was strongly recommended by Ghery, Werner and others.

Ralph Showers – reference to Dr xx (Bill) regarding intentional interference already involved in this work who should be an important resource.

ACTION ITEM 1 - Don Sweeny – to provide feedback on the homeland security EMC specification for Homeland Security and Voting Equipment. Don took action item to collect responses from SDCom and prepare replies to each agency requesting feedback. There will be a meeting on 29th (at NIST?) and preliminary feedback would be useful before this.

ACTION ITEM 2 - Ghery Petit reinforced our need to be involved and will work to support Don. Specifically Ghery will draft a test to failure procedure to validate that the equipment fails in an acceptable manner.

4. 1900 series: The most recent meeting was held the previous week in Denver. A liaison meeting was held with IEEE 802.19, the 802 Coexistence WG.

Steve Berger provided report on the analysis method for determining when interference becomes harmful interference. An analysis centered on receiver susceptibility, the receiver viewpoint, is included in the current draft of 1900.2.

Ralph – what process does the FCC used to set limits? Some are technically argued others political and economic. Ghery – reminded us the goal and wording of most documents is to provide a reasonable level of protection. Specific product requirements must addressed, i.e. address usage models.

4.2.1 Liaison Opportunities: OMG / SDR forum / E2R looking to work with appropriate standards.

4.2.2 Stephen Berger requested approval for a study project proposed by Dr John Chapin, (Vanu), to develop a test method to verify SDR is working as desired. He will prepare the documentation and lead the volunteer work. There is some level of involvement in this work by Andy Drozd, Steve Berger, Ed Hare, Don Heirman. A

Minutes
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IEEE, Piscataway, NJ

motion to approve this project was made. The motion was passed with two abstentions Dr Ralph Showers and Werner Shaffer due to concerns over the range of our existing charter.

Discussions considered the EMC aspect of this work, as it relates to the charter of the EMC Society. This topic stretches our basic charter into a new technology arena, and needs coverage. Does the EMCS want to be involved actively in this?

ACTION ITEM 3 - Don Heirman action to explore expanding the scope of the charter EMC-S to allow expansion as the new technologies emerge.

- 4.2.3 A motion was made by Steve Berger to form a Regulatory committee to be charged with interfacing with appropriate bodies to communicate actively regarding new technologies and regulatory issues. Caution by Don H. not to conflict with other group and avoid cross purposes and legal issues. Communications to be reviewed and approved by SDCOM and SA. To avoid conflict of understanding this committee's work, it will be called the "External Communication/Planning Committee".

This was approved in principle with the first action being to define the scope.

5. Don Heirman presented PAR from Sabrina Sarto for 299.1, concerning the shielding effectiveness of small enclosures and boxes (having linear dimensions of 0.1 – 0.75m) at frequencies up to 18GHz. – There is a possible existing standard within IEC? Steve to follow up.

Bruce Archambeault volunteered to join this committee and extend the work to include ranges up to 2.0m which completes the enclosure size.

This motion was approved with the amended physical size. Now 0.1 to 2.0 m.

6. BPL IEEE 1775.

6.1 EMC representative

6.2 Operating Procedure – now three societies involved.

It was reported that ComSoc is applying to be a 3rd co-sponsor of P1775.

Ed Hare reported the status of this work. This 1775 committee is very heavy loaded with BPL systems manufacturers and meetings held with BPL events. Ed is prepared to act as EMCS representative but due to ARRLs strong position on this topic will always be seen to have a strong conflict of interest.

Minutes
IEEE-EMCS Standards Development Committee
Thursday, March 16, 2006
IEEE, Piscataway, NJ

6.3 Meeting locations have all been at PLC events, it is proposed to meet at EMC symposium and other

The operating procedures are not yet well known and need to be worked out with the three societies. It is now concentrated in the power society. EMCS procedures for VC and guidance of joint projects are to be based on a MOU which is not yet in place.

The goal is to now begin with COMsoc and implement an MOU and then approach the 1775 (PowerSoc) with a better base to form the governing documents. This will be lead by Steve Berger.

ACTION ITEM 4 - Stephen Berger to develop draft MoU on P1775 with ComSoc and then with PES.

7. Symposium Meetings for Standards meetings – budget estimations for 2006 symposium are due to Steve Berger for all meetings to ensure that the total standards budget is not exceeded. There has been some confusion over what was charged compared to what was budgeted or expected by the individual meeting chairman.

8. Three projects are out for reaffirmation.

9. Next meetings in Hanover, Germany (May) and Portland, OR (Aug).

10. Dan Hoolihan took an action to explore alternate means of funding standards such that they can be freely available to those who need them.

11. Meeting adjourned at 2:54 pm

Minutes
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Open Action Items

#	Item	Status
Action Items from November 2005 Meeting		
1	<i>Action item:</i> S. Berger to coordinate approval of 1900 WG P&P with COMSOC and circulate comments to SDCom members for immediate review and coordinated approval.	Open
2	<i>Action item:</i> Mike Hart to prepare Excel spreadsheet on project status and next steps (Bill Ash to provide input).	Open
3	<i>Action item:</i> Mike Hart to review 2005 & 2006 expenses and prepare draft budget for chair and VP stds to review.	Open
Action Items from March 2006 Meeting		
4	<i>Action item:</i> Don Sweeny – to provide feedback on the homeland security EMC specification for Homeland Security and Voting Equipment. Don took action item to collect responses from SDCom and prepare replies to each agency requesting feedback. There will be a meeting on 29 th (at NIST?) and preliminary feedback would be useful before this.	
5	<i>Action item:</i> Ghery Petit reinforced our need to be involved and will work to support Don. Specifically Ghery will draft a test to failure procedure to validate that the equipment fails in an acceptable manner.	
6	<i>Action item:</i> Don Heirman action to explore expanding the scope of EMC-S to allow expansion as the new technologies emerge, specifically to follow the 1900 effort for next generation radio and spectrum management.	
7	<i>Action item:</i> Stephen Berger to develop draft MoU on P1775 with ComSoc and then with PES.	
8	<i>Action item:</i> Dan Hoolihan took an action to	

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	explore alternate means of funding standards such that they can be freely available to those who need them.	