MINUTES (Unconfirmed) - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING

Monday, March 9, 2009 - 8:00 am.

All times Pacific Daylight Time (PDT)

Vancouver, BC

EC members present:

Paul Nikolich - Chair, IEEE 802 LAN / MAN Standards Committee Mat Sherman - Vice Chair, IEEE 802 LAN / MAN Standards Committee Pat Thaler - Vice Chair, IEEE 802 LAN / MAN Standards Committee James Gilb - Recording Secretary, IEEE 802 LAN / MAN Standards Committee Buzz Rigsbee - Executive Secretary, IEEE 802 LAN / MAN Standards Committee John Hawkins - Treasurer, IEEE 802 LAN/MAN Standards Committee Tony Jeffree - Chair, IEEE 802.1 - HILI Working Group David Law - Chair, IEEE 802.3 - CSMA/CD Working Group Bruce Kraemer - Chair, IEEE 802.11 - Wireless LANs Working Group Bob Heile - Chair, IEEE 802.15 - Wireless PAN Working Group Roger Marks - Chair, IEEE 802.16 - Broadband Wireless Access Working Group Mike Lynch - Chair, IEEE 802.18 - Regulatory TAG Steve Shellhammer - Chair, IEEE 802.19 - Wireless Coexistence TAG Mark Klerer - Chair, IEEE 802.20 - Mobile Broadband Wireless Access Vivek Gupta - Chair, IEEE 802.21 - Media Independent Handover Geoff Thompson - Member Emeritus (non-voting)

EC members absent:

John Lemmon - Chair, IEEE 802.17 - Resilient Packet Ring Working Group Carl Stevenson - Chair, IEEE 802.22 - Wireless Regional Area Networks

Attending in place of Carl Stevenson Gerald Chouinard - Vice Chair, IEEE 802.22 - Wireless Regional Area Networks

Meeting called to order at 8:00 am local time.

1.00MEETING CALLED TO ORDERNikolich108:00 AM2.00MIAPPROVE OR MODIFY AGENDANikolich408:01 AM

Nikolich asked for any modifications to the agenda

Moved by Law, second by Jeffree Vote is 13/0/0 Agenda is approved.

Monday 8:00AM -10:30AM

00		MEETING CALLED TO ORDER	Nikolich	1	08:00 A
00	ΜI	APPROVE OR MODIFY AGENDA	Nikolich	4	08:01 A
	*	APPROVE / MODIFY Minutes of previous opening and closing meeting	Nikolich	0	08:05 A
					08:05 A
00		EC member affiliation updates	Nikolich	2	08:05 A
01					08:07 A
02					08:07 A
	Cate	egory (* = consent agenda)			08:07 A
		BoG and Stds Board items			08:07 A
00	П	BoG Actions	Nikolich	5	08:07 A
01	П	Patent Pools and Conformity Assessment	Nikolich	3	08:12 A
02	П	Stds Board Actions (approved projects, standards, withdrawals)	Nikolich	5	08:15 A
03	П	PARS to NesCom	Nikolich	2	08:20 A
04	П	List of Drafts to Sponsor Ballot	Nikolich	2	08:22 A
05	II	List of Drafts to Revcom	Nikolich	2	08:24 A
					08:26 A
		SA items			08:26 A
00	II	IEEE Staff Introductions	Nikolich	2	08:26 A
01	П	802 Task Force update	Nikolich	5	08:28 A
02	П				08:33 A
03	II				08:33 A
04	II				08:33 A
	П				08:33 A
	II				08:33 A
	II				08:33 A
	II				08:33 A
	II				08:33 A
10	II	IMCC's	-		08:33 A
		LMSC items			08:33 A 08:33 A
00	п	Treasurer's report	Hawkins	10	08:33 A
00		nNA update	Rigsbee	5	08:43 A
02				3	08:48 A
	II	LMSC Email Ballot Recap	Nikolich	5	08:48 A
	П	LMSC Meeting Fee Waivers	Nikolich	2	08:53 A
	II	Tutorial schedule	Nikolich	2	08:55 A
	П	JTC1/SC6 update	Thompson	5	08:57 A
	II	TV Whitespace ECSG status report	Sherman	10	09:02 A
	DT	Remote participation in face to face meetings/electronic participation experiment	Sherman	10	09:12 A
	II	Forging consensus	Nikolich	1	09:22 A
	II				09:23 A
11					09:23 A
12		Notice of Study Groups under consideration/status of existing SGs	WG chairs	10	09:23 A
13					09:33 A
14					09:33 A

7.15	II				09:33 AM
7.16	II				09:33 AM
7.17	II				09:33 AM
7.18	II				09:33 AM
7.19	II				09:33 AM
7.20	II	IMT Advanced update	Lynch	5	09:33 AM
7.21	II				09:38 AM
7.22	II				09:38 AM
7.23	II	Plenary reorganization proposals	Jeffree	2	09:38 AM
7.24	MI	802.3ba press release	Law	5	09:40 AM
7.25	II	Streamlining the Standards development process	Kraemer	10	09:45 AM
7.26	DT	EC off-site meeting planning	Thompson	10	09:55 AM
7.27	DT	48 bit vs. 64 bit addressing	Thompson, Jeffree, Heile	10	10:05 AM
7.28	DT	Is authentication in or out of scope?	Kraemer	5	10:15 AM
7.29	II	P&P review	Sherman	4	10:20 AM
7.30	II	EC meeting schedule (rules, SA, etc.)	Nikolich	3	10:24 AM
7.31					10:27 AM
7.32					10:27 AM
7.33	DT	ADJOURN SEC MEETING	Nikolich		10:30 AM
8.00	PL	IEEE 802 PLENARY MEETING STARTS	Nikolich	60	11:00 AM
8.01	PL	IEEE 802 PLENARY MEETING ENDS			12:00 PM

ME - Motion, External MI - Motion, Internal DT- Discussion Topic II - Information Item

Special Orders

Stand	dards Project Authorization
Otalia	Project No 80s
Date of Request	Approvad: 3/13/88
2. [X] New Standard	Restriction of
Sundard No	Withdrawal of Standard No.
3 Project Title: Local network for Co	omputer Interconnection.
(1 M bit/sec) and within a loc of the proposed standard is to	The proposed standard will apply to Data Processing cate with each other at a moderate data rate all area (physical data path up to 4 km). The purpos provide compatibility between devices of different are and software customization necessary for effective and or eliminated.
5. Sponsor Computer Standards	Computer Society
Technical Committee	Society
se Proposed ANSI Committee	AMSI Project =
X3 Proposed Coordinates Dr. Herbert Hecht Computer Socientative to X3. Also coordinates will be undertained to the coordinates will bea	netion with sken. Minutes Computer Stds. Committee (added
5. Proposed Coordination Dr. Herbert Hecht Computer Socientative to X3. Also coordin IEC Committees will be understand will be mailed to AMSI x 3 Sec. 7. Name of Group that will Write the Standard	Nethod of Coordination riety Representation with sken. Minutes Computer Stds. Committee (added- retary. by smendment 9/17/81 StB meeting)
5. Proposed Coordination Dr. Herbert Hecht Computer Soc sentative to X3. Also coordin IEC Committees will be underta will be mailed to AMSI x 3 Sec	Method of Coordination itety Representation with sken. Minutes Computer Stds. Committee (added- iretary. by amendment 9/17/81 StB meeting) Local Network
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Mar 2009 IEEE 802 LMSC

Opening EC Meeting 8 AM-10:30AM

Nikolich asked for any affiliation changes

Hawkins' affiliation is Ciena Networks

Thompson's affiliations are Nortel and GCSI (Grand Cayman's Standards Institute)

Jeffree affiliations are HP and Broadcom.

Marks affiliation is WiMax Forum.

Rigsbee is self sponsored for this meeting and likely for the remainder of the term.

Nikolich discussed SA BoG items

No update on strategic plan

Law discussed issues with correctly getting copyright

Nikolich mentioned that there are revised participant qualifications

These will be discussed during 802 task force meeting

DEC08/FEB09 SA BoG Actions/Update

- BoG approved the SAStrategic Plan—still working on communication plan
- Policy and Procedure: Revised copyright, revised participant qualifications

The 2009 BoG consists of 13 members:

SA President: Chuck Adams

SA Past-President: George Arnold

Standards Board Chair: **Bob Grow**

Standards Board Past Chair & Corporate Advisory Group Chair: Steve Mills

IEEE-SA Treasurer: Don Wright

Secretary (non-voting): Judy Gorman

Members-At-Large: Ben Johnson, Ted Olsen, Greg Saunders, Phil Wennblom,

James Williamson, Jim Pauley, Paul Nikolich, John Barr

BoG ad hoc committees:

Strategic Planning chaired by Johnson

Business Development chaired by Nikolich

Thompson asked if there were any aspects of the Patent Pools that were going to be confidential. He thinks there is a strong potential for conflicts.

These can be discussed Tuesday night

SA programs of interest

- Patent Pools
 - Tutorial Tuesday evening
- Conformity Assessment
 - ISTO hired a director to pursue development of this program

5.02 II

Stds Board Actions (approved projects, standards, withdrawals)

Nikolich

08:13 AM

5

Nikolich reviewed the Standards Board actions

DEC 2008 SA Standards Board Actions

Standards Approved

New:

P802.1ap/D4.2 Virtual Bridged Local Area Networks - Amendment 9: Management Information Base (MIB) Definitions for VLAN Bridges

Revisions: none

Reaffirmations: none

Corrigendum: none

Extensions: none

Withdrawals: 802.16/Conformance01-2003, **802.16**/Conformance02-2003

DEC 2008/JAN 2009 SA Standards Board Actions

Project Actions

New:

P802.3.1- MIB definitions for Ethernet

P802.3-2008/Cor 1 Corrigendum 1 Timing considerations for PAUSE operation

P802.3bc - Amendment: Ethernet Organizationally Specific type, length, values (TLVs)

P802.11ad- WLAN Amendment: Very High Throughput in 60GHz band PHY

P802.15.4f- WPAN Amendment: Active Radio Frequency Identification (RFID) System PHY

P802.15.4g- WPAN Amendment: Low Data Rate Wireless Smart Metering Utility Networks PHY

P802.15.7- WPAN PHY and MAC for Short-Range Wireless Optical Comm. Using Visible Light

P802.20a- MBWA Amendment: MIB Enhancements and Corrigenda Items

P802.20b- MBWA Amendment: Bridging of 802.20

P802.21a- MIHS Amendment: Security Extensions to Media Independent Handover Services

P802.21b- MIHS Amendment: Handovers with Downlink Only Technologies

Modified PAR: P802.3at- Amendment: DTE Power Via the MDI Enhancements

Revisions: P802.11- WLAN MAC and PHY specifications

Reaffirmations: 802.15.2-2003 Coexistence of WPAN with Other Unlicensed Wless Devices

Withdrawals:

P802.11.2 Recommended Practice for the Evaluation of 802.11 Wireless Performance

P802.3ar Amendment: Enhancements for congestion management

Extensions: none

5.03 II PARS to NesCom Nikolich 2 08:14 AM

Nikolich reviewed the PARs that will be sent to NesCom

Law indicated that 802.3bd PAR will be handled by 802.1

Klerer indicated that 802.20b was already approved and his group has no PARs going to NesCom

P802.21 Emergency services should be P802.21.1.

P802.21 New standard should be an amendment, P802.21c

Marks asked for the website to be updated to reflect the name changes.

Gilb indicated that it would be.

Draft PARs to NesCom

- IEEE P802.3bd Amendment for Priority-based Flow Control MAC Control Frame from 802.1Qbb
- IEEE P802.21.1 New standard for Support for Emergency Services, PAR and 5C
- IEEE P802.21c Amendment for Multi-Radio Power Management, PAR and 5C
- IEEE P802.22a Amendment for PHY and MAC Layers for Combined Fixed, Mobile, and Portable Operation in the TV Bands

Nikolich covered the PARs that are due to timeout in DEC09

PARs due to time out DEC09

- 802.1aq, 802.1AR
- 802.3at
- 802.11n, 802.11w
- 802.15.3c
- 802.16h

If these projects will not be submitted to RevCom in time for the December 2009 meeting, you need to take one of the following steps:

- 1. Request an extension for the project (PAR). Please note that this extension request can be from one to four years, although further justification may be requested for an extension request which exceeds two years.
- 2. Request withdrawal of the project (PAR).

08:19 AM

Nikolich asked for Drafts that might be going to Sponsor ballot

802.1 – 802.1Qav (possible), conditional, 802.1aj (conditional), 802.1ab-rev

802.3 – 802.3bc (conditional), 802.3bb Corrigendum (conditional)

802.11 – No drafts

802.15 - 802.15.3c

802.16 - No drafts

802.17 - No drafts

802.20 – 802.20.2, 802.20.3 (conditional)

802.21 - No drafts

802.22 - No drafts

Draft Standards to Sponsor Ballot

- Check with EC members
- 802.1: dot1qav (cond), dot1aj (cond), dot1ab_rev
- 802.3: dot3bc (cond), dot3bb (cond)
- 802.11:
- 802.15: dot15.3c 60GHz
- 802.16:
- 802.17:
- 802.20: dot20.2, dot20.3 (cond)
- 802.21:
- 802.22:

5.05 II List of Drafts to RevCom Nikolich 2 08:23 AM

802.1 – 802.1Qaw (conditional), 802.1Qay (conditional)

802.3 – No drafts

802.11 – 802.11n (conditional), 802.11w (conditional)

802.15 – No drafts

802.16 – 802.16h (conditional)

802.17 – No drafts

802.20 - No drafts

802.21 – No drafts

802.22 – No drafts

Draft Standards to RevCom

- Check with EC members
- 802.1: dot1qaw (cond), dot1qay (cond)
- 802.3:
- 802.11: dot11n (cond), dot11w (cond)
- 802.15:
- 802.16: dot16h (cond.)
- 802.17:
- 802.20:
- 802.21:
- 802.22:

Nikolich listed the 802 participants who are members of the SA Standards board.

Thompson indicated that he is not on NesCom this year.

Law indicated that John Barr is also on RevCom

Law indicated that he is not on ProCom

Glenn Parsons is not on ProCom either.

Nikolich noted that the membership roster he downloaded was not accurate. Others indicated that it should be correct now.

SA Standards Board

802 Participants on SASB and its subcommittees

SASB members: Bob Grow (chair), Steve Mills (past Chair), John Barr, David Law, Glenn Parsons, Mark Epstein, Jon Rosdahl

NesCom: Young Kyun Kim, Mark Epstein

RevCom: David Law (chair), Clint Chaplin, Phil Barber, Wael Diab, Glenn Parsons, Jon Rosdahl, John Barr

ProCom: Steve Mills

PatCom: Steve Mills (chair), David Law

AudCom: Glenn Parsons, Clint Chaplin, Wael Diab

SA items

6.00 II IEEE Staff Introductions Nikolich 2 08:31 AM

Nikolich indicated that Karen Kenney will not be supporting any longer, Sue Vogel and Susan Tatiner will take Karen's place.

IEEE Staff Introductions

1. Michelle Turner Program Manager, Document Development

2. Michael Kipness: Program Manager, Technical Program Development

3. Kathryn Cush: Program Manager, Technical Program Development

4. Sue Vogel: Director, Technical Committee Programs

5. Susan Tatiner: Associate Managing Director Technical Program

Development and 802 Ombudsman

6. Edward Rashba: Director, New Business Ventures

6.01 II 802 Task Force update Nikolich 5 08:32 AM

Meeting is Wednesday, 1-3 pm. Nikolich presented the tentative agenda. Nikolich asked for any additions, none were suggested.

IEEE-SA/802 Task Force

- Wednesday 1-3pm
- Tentative Agenda
 - 1. ISO/IEC JTC1 WG1 status update Kipness
 - 2. SA Strategic Plan--what is the plan to communicate it to the sponsors? Vogel
 - 3. Copyright Policy changes Law
 - 4. Ombudsman update Tatiner
 - 5. GetIEEE802 2010 budget Nikolich
 - 6. Patent Pool Tutorial feedback Rashba
 - 7. Certification Program update -- Rashba
 - 8. Action item review Nikolich
 - 9. Adjourn

LMSC items

Treasurer's report

Hawkins 10 08:34 AM

Hawkins presented the Treasurer's report.

7.00

Hawkins indicated that our credit card fees are going up and so our discounts are going down.

Rigsbee asked if the concentration banking would help our fees?

Hawkins will look into seeing if we can get a better rate.

Grow said that the last time he looked, we had a better deal than the IEEE.

Sherman asked at what number we stop breaking even

Hawkins indicated that at about 100 less attendees would be break even.

IEEE Project 802 Statement of Operations New 2008 Planery Session

Nov 2008 Plenary Session

enary Session s, Tx

Dallas, Tx As of Mar 9, 2009

Session Income	dB	Est/Act Budget		Deviation	
Net Registrations 77.9% 988 Early Registrations @ \$400 53 Cancellations @ \$350 15 Early cancellations @ \$400 3 Visa cancellations @ \$400	(18,550) (6,000)	1,268	1,400	(132)	
22.0% 279 Registrations @ \$500 0 Cancellation @ \$500 4 Cancellation @ \$450 0.1% 1 Student @ \$150 0 Other credits @ \$100 Registraion Subtotal 0 Deadbeat Payment @ \$500	139,500 0 0 (1,800) 150 0 \$ 507,300	\$ 506,850 0	\$ 589,960 0	\$ (83,110)	
Interest		4,731	1,400	3,331	
Other (Hotel comps and commission)		65,508	75,000	(9,493)	
TOTAL Session Income		\$ <i>577,088</i>	\$ 666,360	\$ (89,272)	
Session Expenses		Est/ <i>Act</i>	Budget	Deviation	
Audio Visual		29,520	25,500	(4,020)	
Audit		0	0	0	
Bank Charges		145	350	205	
Copying		2,756	3,500	744	
Credit Card Discounts & Fees		22,354	17,458	(4,896)	
Equipment Expenses		637	15,000	14,363	
Get IEEE 802 Conttribution		89,550	102,900	13,350	
Insurance		0	0	0	
Meeting Administration		92,593	101,610	9,017	
Misc Expenses		3,816	* 3,500	(316)	
Networking		60,714	70,000	9,286	
Other Expenses		0	0	0	
Phone & Electrical		1,816	2,000	185	
Refreshments		125,184	150,000	24,816	
Shipping		14,763	15,000	237	
Social		50,490	50,000	(490)	
Supplies		2,577	800	(1,777)	
TOTAL Session Expense		496,915	557,618	60,703	
NET Session Surplus/(Deficit)		80,173	108,742	(28,569)	
Analysis Refreshments per registration Social per registration Meeting Admin per registration Surplus/(Loss) per registration		99 40 73 63	107 36 73 78	8 (4) (0) (14)	

^{*} Misc items: Hotel gratuities, service awards, registration counter rentals, CD production expense

Cash recognized on hand as of Mar 9, 2009	\$ 1,233,257
Additional income for Mar 09 session	\$ -
Reserve for unpaid expenses for prior sessions	\$ (1,500) bank fees, CC fees, etc
Reserve for other outstanding commitments	\$ -
Income received for current session	\$ (38,000)
Expenses prepaid for current session	\$ 63,939
Expenses prepaid for future sessions	\$ -
Operating Reserve following this session	\$ 1,257,696

IEEE Project 802 Estimated Statement of Operations Mar 2009 Plenary Session Vancouver, BC

Meeting Income	Estimate	Budget	Variance
Registrations	1,050	1,200	(150)
Registration income	451,500	516,000	(64,500)
Cancellation refunds	(15,803)	(10,320)	
Deadbeat collections	0	0	0
Bank interest	2,500	1,400	1,100
Other income	65,083	75,000	(9,917)
TOTAL Meeting Income	\$ 503,281	\$ 582,080	(78,799)
Meeting Expenses	Estimate	Budget	Variance
Audio Visual Rentals	25,500	\$ 25,500	0
Audit	0	0	0
Bank Charges	350	350	0
Copying	3,000	3,500	500
Credit Card Discount	15,803	14,964	(839)
Equipment Expenses	2,000	2,500	500
Get IEEE 802 Contribution	75,975	88,200	12,225
Insurance	0	0	0
Meeting Administration	83,831	92,400	8,569
Misc Expenses	3,500	3,500	0
Network	85,000	70,000	(15,000)
Other Expenses Phone & Electrical	0 1,500	0 2,000	F00
Refreshments	120,000	150,000	500 30,000
Shipping	15,000	15,000	30,000
Social	55,000	50,000	(5,000)
Supplies	800	800	0
Other Discounts	0	0	0
	\$ 487,259	\$ 518,714	
TOTAL Meeting Expense	Ф 401,239	φ 510,/14	31,455
NET Meeting Income/Expense	\$ 16,022	\$ 63,366	(47,344)

7.01 II nNA update Rigsbee 5 08:42 AM

Rigsbee indicated that the expenses for nNA would go down instead of up due to relative currency strengths. We have started negotiations with Marina Bay Sands, the initial contract needed edits to reduce some of the cancellation items.

Nikolich asked about 2013

Rigsbee indicated that we have two options, University of Twente and ITU in Geneva. The hotel numbers are better in July than they were in March.

7.03 II LMSC Email Ballot Recap

Nikolich 5 08:45 AM

Nikolich reviewed the one email ballot, closed 14 February, 2009 on the IMT advanced press release. It was run by Lynch and it passed 11 yes, 0 no, 0 abstain, 5 did not vote.

7.04 II LMSC Meeting Fee Waivers

Nikolich 2 08:46 AM

Law pointed out that there is a limit of 10 fee waivers.

Nikolich said that there are 8 waivers for this meeting.

Thompson indicated that if a person attended only a tutorial that they did not need to register.

Sherman indicated that Lee Pucker's affiliation is SDR Forum for this meeting.

Marks asked for affiliations of the tutorial waivers.

Torey Bruno's affiliation is Via Licensing.

Rigsbee indicated that in the past we have considered Tutorials as part of the technical session, but offer waivers for individuals that only attend the tutorial.

Meeting Fee Waivers

- The following individuals have had their registration fees waived for this plenary session by the LMSC chair.
 - IEEE-SA Staff Participants (per previous slide)
 - Invited Participants
 - Lee Pucker, SDR Forum (requested by Mat Sherman for WS Tutorial)
 - Torey Bruno, Via Licensing (by Nikolich for Patent Pool Tutorial)

7.05 II Tutorial schedule Nikolich 2 08:49 AM

Nikolich reviewed the Tutorial schedule.

Thompson indicated that the 802.3 CFI is not a tutorial. It is just to gauge interest.

Tutorial Slot Schedule

Monday	Tuesday
1) Multi-Radio Power Conservation Management 6:30-8:00PM sponsor: V. Gupta	3) White Space Tutorial 6:30-9:00PM sponsor: M. Sherman
2) CFI 802.3 Support for IEEE 802.1AS Time and Synchronization 8:00-9:30PM sponsor: D. Law	4) IEEE-SA Patent Pool Collaboration with Via Licensing 9:00-10:00PM sponsor: P. Nikolich

7.06 II JTC1/SC6 update Thompson 5 08:51 AM

Thompson is resigning as TAG chair, effective at this meeting and will have no further involvement in the international activities. There will be a TAG meeting late on Tuesday, but the time has not yet been fixed.

Nikolich indicated that the WAPI proposal is under discussion.

7.07 II TV Whitespace ECSG status report

Sherman 10 08:52 AM

Sherman presented VC1_09032009_r0_EC_TV_Whitespace_Status.ppt

Nikolich had to step out at 8:56 am, Sherman took over as Chair

Thompson indicated that the recommendation should be one of three items, no further action, create a TAG or generate a PAR and 5C.

Nikolich returned at 9:01 am and resumed as Chair.

Nikolich asked for any comments.

Lynch indicated that a document regarding regulatory issues for this band needs to go out this week.

Kraemer indicated that there was more than one opinion, which made consensus difficult.

Heile indicated that he was looking for a decision on the process going forward.

Chouinard said that this was a complex topic and thanked Sherman for his work on this.

Shellhammer thinks that this will come down to each working group going forward with their own recommendation. Coexistence and incumbent protection would be cross-group items.

Marks wondered how we would define common interfaces above the radio layers.

Thaler felt that it would need to be done in the individual groups. Thaler asked how much frequency was allocated.

Chouinard indicated that it was about 200 MHz

Shellhammer indicated that there was 200 MHz for mobile devices, more is allocated for fixed devices.

Jeffree didn't like the recommendations as they were not specific enough. He asked that Sherman take this opinion back to the working group.

Thompson asked for some clarification of the bullet regarding of database. He requested that it be rephrased so that it could be understood.

Law – no comment

Hawkins – no comment

Klerer – no comment

EC Update on TV Whitespace ECSG

Author:

Matthew Sherman
Chair, TV Whitespace ECSG
BAE Systems - ES
Matthew.Sherman@BAESystems.com

Date: March 9th, 2009

ECSG Tasks

- Assess the impact of the FCC White Space R&O on IEEE 802 activities
- Identify Use Cases of TV White Space Spectrum
- Identify what functions may be common across 802 technologies
- Begin technical discussion on how to enable coexistence between various 802 technologies in the shared TV white space spectrum
- Prepare a Tutorial for March Plenary
- Make recommendations to 802 EC by March 2009 on next steps
- This study group shall not develop a PAR and 5C

Overall stats

- ECSG has been in existence for 4 months and
 - has held 11 formal teleconference and larger number of ad hocs
 - Face to Face meetings at wireless interim
 - 54 documents posted (120 with revisions)
 - Aggregate attendance over 150 aggregate
 - Over 270 participants on reflector

Goals for March Plenary

- Approve tutorial material
 - Chair is concerned insufficient time will exist to approve tutorials before presented
 - Will present as individual opinions rather than ECSG if necessary
- Conduct tutorial on TV Whitespace
 - Scheduled for Tues. 3/10/09 6:30 PM − 9 PM
 - EC Members are especially encouraged to attend
- Complete recommendations for EC

Agenda for Plenary can be found at:

https://mentor.ieee.org/802-sg-whitespace/dcn/09/sg-whitespace-09-0049-02-0000-agenda-for-march-2009-plenary-meetings.xls

Status on Tasks

Assess the impact of the FCC White Space R&O on IEEE 802 activities

- Numerous discussions on teleconferences
- Regulatory presentation prepared for tutorial
 - https://mentor.ieee.org/802-sg-whitespace/dcn/09/sgwhitespace-09-0048-03-0000-regulatory-tutorial-material.ppt
 - Covers US and non-US
 - Not yet 'approved' as output of ECSG (Planned for Tuesday AM)
- FCC has published rules in Federal Register on 2/17/09
 - http://frwebgate3.access.gpo.gov/cgi-bin/PDFgate.cgi?
 WAISdocID=5780341621+8+2+0&WAISaction=retrieve
- Clock ticking towards March 19 deadline for comments
 - No one in ECSG has expressed desire to comment
 - Other groups (802.22, 802.11, etc) plan to comment

Identify Use Cases of TV White Space Spectrum

- A presentation has been prepared for the tutorial and approved by the ECSG
 - Current posting is
 - https://mentor.ieee.org/802-sg-whitespace/dcn/09/sg-whitespace-09-0051-01-0000-use-case-tutorial-presentation.ppt
 - Still requires editorial revisions based on approval

Identify what functions may be common across 802 technologies

- Ad Hoc activities could not reach concensus on some issues
- Two presentations have been prepared for the tutorial but are not yet approved by the ECSG (Planned for Tuesday)
 - https://mentor.ieee.org/802-sg-whitespace/dcn/09/sg-whitespace-09-0039-02-0000-tutorial-draft-tvbd-common-functions-across-ieee-802.ppt
 - https://mentor.ieee.org/802-sg-whitespace/dcn/09/sg-whitespace-09-0046-00-0000-whitespace-802-common-functions.ppt

Begin technical discussion on how to enable coexistence between various 802 technologies in the shared TV white space spectrum

- A presentation has been prepared for the tutorial but not yet approved by the ECSG (Planned for Tuesday)
 - Current posting is
 - https://mentor.ieee.org/802-sg-whitespace/dcn/09/sg-whitespace-09-0040-03-0000-coexistence-tutorial-material.ppt

Prepare a Tutorial for March Plenary

- Tutorial will be held Tuesday night (6:30 PM to 9 PM)
 - First 1.5 hours responds to EC questions
 - Additional hour on related topics
- Current Agenda

1.00	WELCOME / INTRODUCTIONS / RECOMMENDATIONS (Pending)	Sherman	5	06:30 PM
2.00	US AND NON-US REGULATORY ENVIRONMENT (09/48r3)	Rayment	30	06:35 PM
3.00	USE CASES FOR TV WHITESPACE (09/51r2)	Cummings	10	07:05 PM
4.00	COEXISTANCE BETWEEN 802 STANDARDS IN TV WHITESPACE (09/40)	Shellh am mer	15	07:15 PM
5.00	COMMON FUNCTIONS ACROSS 802 FOR TV WHITESPACE (None)		0	07:30 PM
5.01	COMMON FUNCTIONS ACROSS 802 FOR TV WHITESPACE (09/46)	Paine	5	07:30 PM
5.02	COMMON FUNCTIONS ACROSS 802 FOR TV WHITESPACE (09/39)	Goldh am mer	10	07:35 PM
6.00	QUESTIONS AND ANSWERS	Sherman	15	07:45 PM
7.00	SECURITY FOR TV WHTIESPACE (09/45)	Reznik	10	08:00 PM
8.00	STANDARDS ACTIVITIES RELATING TO TV WHITESPACE		0	08:10 PM
9.00	IEEE 802.22 (Pending)	Chouinard	10	08:10 PM
10.00	IEEE SCC 41 (Pending)	Harada	10	08:20 PM
11.00	ITU / ETSI (09/47)	Saeed	10	08:30 PM
12.00	SDR FORUM (09/50)	Pucker	10	08:40 PM
13.00	QUESTIONS AND ANSWERS	Sherman	10	08:50 PM

Make recommendations to 802 EC by March 2009 on next steps

- ECSG needs to complete the recommendations process this week. For status see:
 - https://mentor.ieee.org/802-sg-whitespace/dcn/09/sg-whitespace-09-0052-03-0000-potential-recommendations-of-the-tv-whitespace-ecsg.doc

Make recommendations to 802 EC by March 2009 on next steps

- Currently approved recommendations include
 - The ECSG recommends that IEEE 802 standards operating in the TV Whitespace seeks to support techniques that protect information from the database.
 - The ECSG recommends that IEEE 802 have a coordinated approach (across all WG) to standards in TV Whitespace.
 - The ECSG recommends that IEEE 802 foster cooperation between species of 802 devices in TV Whitespace spectrum.
 - The ECSG recommends that IEEE 802 establish White Space liaisons as necessary with other SDOs.
 - The ECSG recommends that the EC consider the content of document 09/51r2 in response to its questions on Use Cases for TV Whitespace spectrum. (Paraphrased)

10

Sherman presented VC1_09032009_r0_EC_Electronic_Participation – opening.ppt

Thaler indicated that historically it was used only informally in Task Group meetings.

Law asked for the number of electronic participants (concerned with sample size).

Sherman indicated that it was 9 electronic and 17 non-electronic.

Gilb pointed out on Slide 10 that the second poll question was copied in wrong, it should be regarding paying the full meeting fee.

Thaler indicates that her experience is that having 'independents' who are not working on specific projects are not always helpful in generating a standard. This was a Study Group meeting, in a Task Group the face-to-face work becomes more important. Thinks that face-to-face is important in building consensus.

Nikolich asked Sherman to individually poll the EC members and come back with a recommendation.

Rigsbee asked if it would be useful to have an EC ad-hoc.

Nikolich scheduled it for Thursday at noon.

Thompson said Thursday is a bad day.

Nikolich changed it to Wednesday at noon.

EC Update on the Electronic Participation Experiment

Author:

Matthew Sherman
Chair, IEEE 802 TV Whitespace ECSG
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Matthew.Sherman@BAESystems.com

Date: March 9th, 2009

Background

- The electronic participation (EP) experiment was conducted at the January 2009 wireless interim
 - Prompted by desire of some TV Whitespace (TVWS) ECSG members to participate electronically at Face to Face Interim meetings
 - Not explicitly prohibited by rules but historically not permitted
- Special permission was granted by the IEEE 802 Chair for EP in TVWS meeting at the wireless interim if done as an experiment
 - Must have hypothesis
 - Must have metrics and collect data to test hypothesis
 - No voting or attendance credit was permitted for electronic participants

EP Facilities Provided

- Telephone line in conference room
- Online presentation facility with full teleconference
 - Electronic participants could view document
 - Electronic participants could interact with F2F participants
 - Electronic participants could participate in straw polls
- Hybrid was made available so that phone line and microphones / speaker system could be combined with high quality
- Microphones with on off switches
 - Hotel had to switch out existing microphones

Hypothesis and Metrics

- **Hypothesis:** The quality of resulting standards is higher if other IEEE 802 WG / external organizations can participate electronically at interim sessions vs not having electronic participation at those sessions.
- Metrics: Strawpolls as follows
 - How did you participate in the meeting electronically or non-electronically?
 (Electronically / Non-electronically)
 - Do you feel that the meeting was conducted more or less fairly with electronic participants than without? (-5/+5)
 - Did having electronic participation available increase or decrease your effectiveness in the standards process? (-5/+5)
 - Did having electronic participation available increase or decrease your ability to participate in the standards process vs not having electronic participation? (-5/+5)
 - Would you participate electronically if you were required to pay the incremental costs for providing electronic participation? (Yes / No)
 - Would you participate electronically if you were required to pay the full registration fee (but no voting or attendance credit)? (Yes / No)

Results

How did you participate in the meeting - electronically or non-electronically?

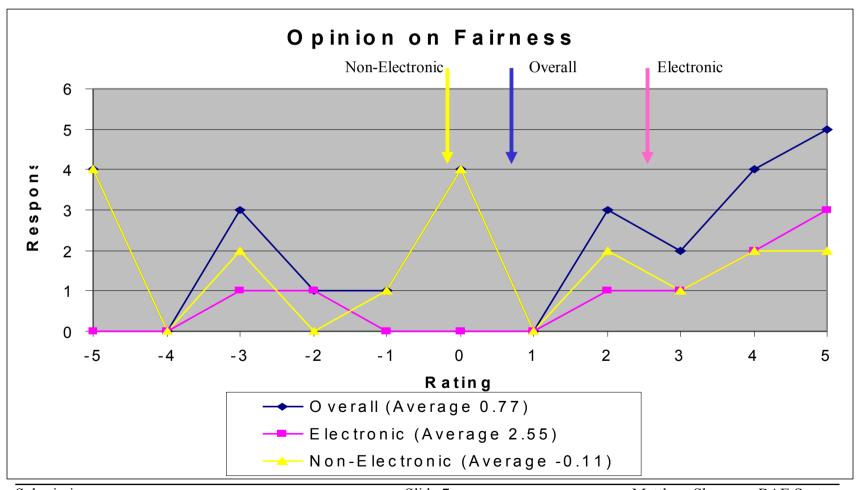
• Electronic: 9

• Non-Electronic:17 67%

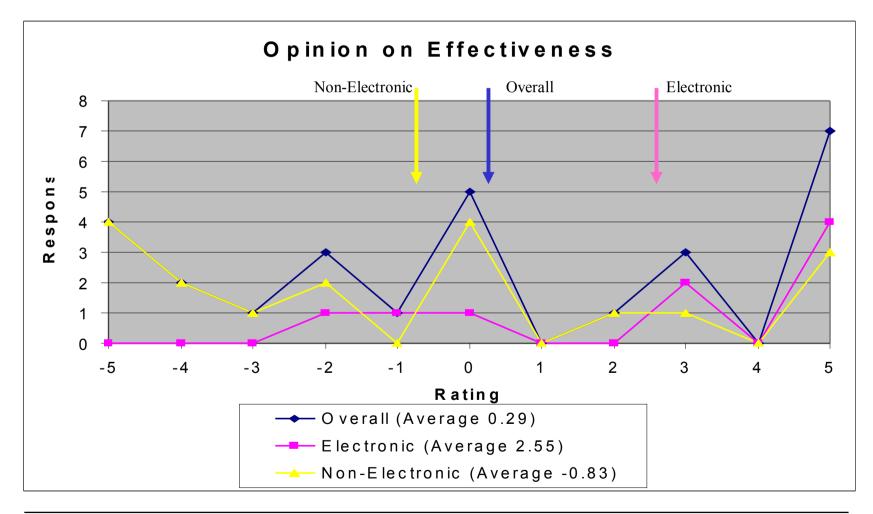
• Both (counted as Non):1

Poll results were heavily correlated with electronic vs non-electronic participation.
The perception was generally positive for those participating electronically
The perception was slightly negative for those who participated non-electronically
(But individual results tended towards the extremes)

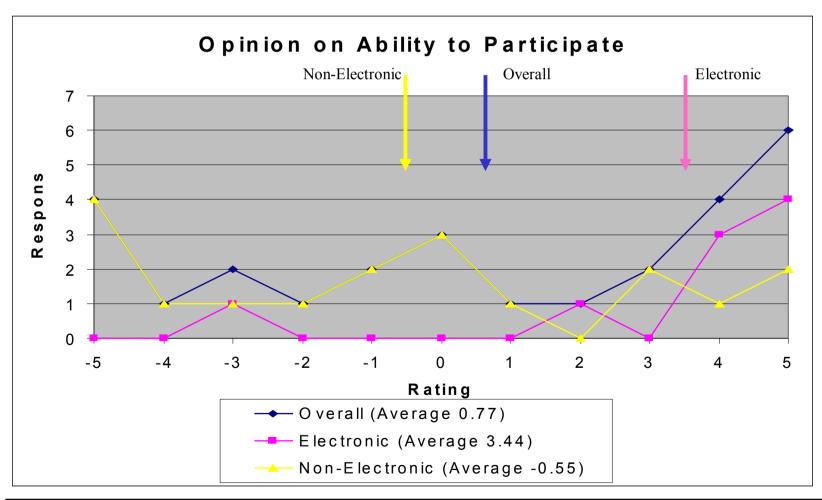
Do you feel that the meeting was conducted more or less fairly with electronic participants than without? (-5/+5)



Did having electronic participation available increase or decrease your effectiveness in the standards process? (-5/+5)



Did having electronic participation available increase or decrease your ability to participate in the standards process vs not having electronic participation? (-5/+5)



Would you participate electronically if you were required to pay the incremental costs for providing electronic participation? (Yes / No)

• Electronic Yes: 86% No: 14%

• Non-Electronic Yes: 59% No: 41%

• All Yes: 67% No: 33%

Would you participate electronically if you were required to pay the full registration fee (but no voting or attendance credit)? (Yes / No)

• Electronic Yes: 0% No: 100%

• Non-Electronic Yes: 6% No: 94%

• All Yes: 4% No: 96%

Other notes

- Excel spreadsheet for calculations available privately to EC members
 - Contains information on an invalid poll
 - Contains comments from participants
 - Not 'pretty' in organization
- Numerous e-mails were received for and against (private and public)
 - This was a very controversial topic

Takeaways of TV WS Chair

- The metrics say a lot, but were not really appropriate to test the hypothesis
 - Can't say if 'resulting standards' really were better due to outside participation
- Some things worked well
 - Hybrids are essential, but voice / presentation access worked well
 - Switches on Microphones weren't really required for this venue
- Some things need more work
 - Voting / straw poll tools don't really handle complex motions / polling
 - More experimentation would be required before general usage permitted
- We live in a community of 'haves and have-nots'
 - Many people want to participate in 802 standards and can't because of the cost
 - Especially true for current economic down turn
- Electronic participation may provide a lower cost alternative for have-nots
 - Further cost analysis required
 - Does it lower the overall cost of making standards without hurting quality?
- Many argue electronic participation is no substitute for 'being there'
 - True, but msot agree that EP tools have their place in standards development
 - Where is the balance?
 - Why not let participants decide where the right balance is
 - If practical tools / approach exist, they should be made available to IEEE 802 participants
 - But the tools / approach isn't there yet

7.09 II Forging consensus Nikolich 1 09:27 AM

Thaler said that there will be a teleconference to discuss this topic in the next 1-2 months. Asked that people with timing constraints communicate their restrictions.

7.12 II Notice of Study Groups under consideration/status of existing SGs WG chairs 10 09:28 AM

802.1 - No SGs

802.3 – Potential for group to support 802.1as

802.11 - No SGs

802.15 - No SGs

802.16 - No SGs

802.17 – No groups

802.18 – No groups

802.19 – No groups

802.20 - No groups

802.21 – Emergency communications

802.22 – No groups

802 EC – TV whitespace

Status of Study Groups

- WG chairs to report
 - SGs?
 - 802.1-
 - 802.3 802.1as support
 - 802.11 -
 - 802.15 -
 - 802.16 -
 - 802.17 -
 - 802.18 -
 - 802.19 -
 - 802.20 -
 - 802.21 emergency communications (2nd ext)
 - 802.22 -
 - 802 EC- TV White Space

7.20 II IMT Advanced update Lynch 5 09:31 AM

Lynch indicated that we have been participating and are making progress.

7.23 II Plenary reorganization proposals Jeffree 2 09:32 AM

Jeffree reminded everyone that in his presentation last time there were recommendations on the last slide. He intends to bring them as motions at the closing meeting on Friday.

7.24 MI 802.3ba press release Law 5 09:34 AM

Law presented the 802.3ba press release, files 802d3ba_pr_0309_v3_CB.pdf and 802d3ba_pr_0309_v3.pdf

Motion is "The EC supports the IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet press release to be released contingent upon the IEEE 802.3 Working Group voting to forward the IEEE P802.3ba draft to Working Group ballot with editorial changes as deemed necessary. The EC support the IEEE P802.3ba"

Moved by Law, second by Hawkins

Vote is 12/0/0

Motion passes

40Gb/s and 100Gb/s Ethernet Project Reaches Milestone Vote

Made Possible by Broad Cooperation and New Relationship with ITU-T

Contact:

Karen McCabe, IEEE-SA Marketing Director +1 732-562-3824, k.mccabe@ieee.org

PISCATAWAY, N.J., USA, 13 March 2009 -- The development of faster Ethernet communication standards reached a major milestone this week when the IEEE P802.3 Working Group approved forwarding the draft of their nextw higher speed-standard to Working Group ballot. The standard project is now on plan to meet its target June 2010 approval as a standard by the IEEE Standards Board.

IEEE P802.3baTM is-will be known by its full name of "IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 40 Gb/s and 100 Gb/s Operation."

The project will extend the existing IEEE Std 802.3TM Ethernet protocol standard to operating speeds of 40Gb/s and 100Gb/s in order to provide a significant increase in bandwidth while maintaining maximum compatibility with the installed base of IEEE Std 802.3 Ethernet interfaces, previous investment in research and development, and principles of network operation and management. The project will provide a family of physical layer specifications that target various interconnection needs for application spaces, such as data center, internet exchanges, backbone trunking, high performance computing and video-on-demand delivery.

"Ethernet has become the technology of choice for networking communications," says John D'Ambrosia, Scientist, Force10 Networks and Chair, IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Task Force. "Establishing a standard for 40Gb/s Ethernet will enable the next generation of servers, while 100Gb/s Ethernet will be utilized for aggregation nodes. Together, these two rates will enable the next phase of the Ethernet eco-system."

"The development of IEEE P802.3ba has been enhanced by our strengthened relationship with the <u>International Telecommunication Union's Telecommunication Standardization Sector Study Group 15 (ITU-T SG15)International Telecommunication Union's Telecommunication Standardization Sector (ITU-T)," says David Law, Consultant Engineer, 3Com and Chair for the <u>IEEE</u> 802.3 Working Group. "The bilateral relationship between the two organizations continues to grow," says Law, "allowing for closer coordination. Working together, the two bodies have come up with a solution that</u>

will ensure support of 40Gb/s and 100Gb/s Ethernet in next-generation Optical Transport Networks."

"The IEEE P802.3ba Task Force has experienced broad support, from individuals from many different companies and organizations from multiple industries, representing everyone from component suppliers, system vendors, and the actual end-user community," says D'Ambrosia. "The entire industry is committed to creating the best standard possible for 40Gb/s and 100Gb/s Ethernet to enable its rapid adoption to alleviate the bandwidth crunch being experienced by many."

For more information on the IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Task Force, visit http://www.ieee802.org/3/ba/.

About the IEEE Standards Association

The IEEE Standards Association, a globally recognized standards-setting body, develops consensus standards through an open process that engages industry and brings together a broad stakeholder community. IEEE standards set specifications and best practices based on current scientific and technological knowledge. The IEEE-SA has a portfolio of 900 active standards and more than 400 standards under development. For information on the IEEE-SA, see: http://standards.ieee.org.

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#

Kraemer spoke about potential changes to reduce costs while improving the overall operation of 802.11.

Law thinks this partially overlaps with electronic participation.

Nikolich indicated that the electronic participation discussion is with regards only to the experiment.

Kraemer suggested moving the electronic participation discussion to 12:30-1:30 pm

7.26 DT EC off-site meeting planning

Thompson 10 09:43 AM

Thompson presented "EC Retreat Report.ppt"

Rigsbee spoke regarding the venue. We have qualified for a free board meeting with Hyatt hotels. It isn't available until 2013. He appealed and they allowed for it at the Hyatt in San Francisco, the Monday and Tuesday following the Plenary meeting in San Francisco.

Shellhammer said that this requires an additional extra two days over the weekend.

Thaler suggested a compromise, meet Sunday and Monday.

Heile has a conflict with those dates.

Marks is not convinced that he will support the idea.

Nikolich scheduled the discussion on this from 5-6 pm on Wednesday.

EC Retreat Proposal Report

Geoff Thompson Mar. 9, 2009

Planning for EC Retreat Chartered at Nov 2008 EC Meeting

Target Plan:

- Soon after San Franciso, Jul. 2009 Plenary
- Different location but no add'l air travel
- Location away from San Francisco/San Jose
- 2 Nights, 1 ½ days of meeting
- Informal dinner 1st evening
- $-1\frac{1}{2}$ to 12/3 days of meetings

Planning Assignments for EC Retreat

Agenda: Geoff

• Venue: Buzz

Agenda Assignment

(from Paul (paraphrased))

- The first thing we need is a clear statement of the objective, scope and purpose of the retreat.
- Maybe also ground-rules for participation (for the EC members and any non-EC attendees--altough my gut tells me we won't want anyone there except the EC in order for this to be most effective.)
- Geoff--please take a 1st cut at that and once we agree, we can circulate to the EC for comment.
- In addition to formal work items, also include the informal items--like joint meals, team building events, joint bitching sessions, etc., that may be applicable to the objectives for the retreat.

Proposed...

Objective:

 Deal with appropriate EC business that has proved not to fit into Plenary Week meeting formats.

Scope :

- Focus on top 3 (?) issues

Purpose :

 Get a good enough team start on top major issues that we can carry forward to effective change/resolution

Candidate Issues (to pick from)

- Domination and other distortions to the consensus process
- Disparities in WG practice for common problems
- Inter-group complaints/relationships
- Succession training
- Process changes/tool needs/operational philosophy (lease or buy?) etc.
- Scope and scope definition of 802
- Does/Should the family of 802 Standards have an architecture?
- IEEE-SA relationship issues
- Loose confederation vs. tighter governance/coordination
- (I would be happy to consider additions to the list)

Candidate Issues (Added at EC)

- One
- Two
- Three
- Four
- Five

Proposed Meeting Format

- I believe that we should be working on topics in which most of us have a high vested interest.
- Thus, I think that we should do most of our meeting as a group of the whole.
- Some breakout time will probably be appropriate to develop text for proposals.

I believe that, more or less, leads to the following format:

- DAY 1
 - 5-7 major topics for discussion (chosen in advance from the above list)
 - about an hour on each the 1st day
 - proposal development assignments are "homework" from day 1
- DAY 2
 - Proposal presentation, refinement adoption day 2 (ca 1/2 hour ea.)
 (this means the major work really has to be done day 1)
 - One more topic, if there is time
 - Wrap-up and critique

Desired Result

That this proves to be a worthwhile enough activity in terms of:

- Team-building
- Specific outputs to improve our operation
- ...that we will positively consider doing it again on an occasional basis
- (I'm thinking of once every 2 or 3 years).

Venue?

- Discussions with Buzz in Feb tended towards Monterey but....
- (Take it away Buzz)

10

Nikolich brought up the issue of addressing and asked if there was any further discussion.

Jeffree there is a general issue with 802.15.4 will use true 64 bit addressing vs. a reduced version compatible with 48 bit addressing. This was discussed with an IEEE RAC teleconference. The RAC has the option to require that RAC coordination takes place when there is an issue to discuss. RevCom will review this to determine the status of the RAC coordination.

Thompson said that there needs to be a technical expert to be assigned to help out.

Heile said that commercial deployment is happening for 802.15.4 and solutions need to be recognize this.

Heile said that we need to lay out the issues and see how the industry would be impacted.

Nikolich asked if there was specific time during the week to discuss this. Heile and Jeffree will discuss this offline.

7.28 DT Is authentication in or out of scope?

Kraemer 5 10:06 AM

4 10:10 AM

Kramer said that questions have been raised regarding what is in or out of scope, particularly with respect to items being in or out of scope. Would like a definitive answer regarding this.

Thompson suggested that this be done during the retreat.

Sherman said some items might be out of scope of a project, but in scope for 802.

Thaler said that authentication is done in 802.1, so it should it be in scope of 802.

Nikolich indicated that this will be scheduled for discussion during the retreat, it it happens.

7.29 II P&P review Sherman

Sherman presented "VC1_09032009_r0_EC_P&P_Update – opening.ppt"

Law indicated that starting this year, AudCom can randomly audit working groups to verify compliance with the new WG P&Ps.

Parsons said that this is starting March 31 and that AudCom has not yet set up the full process, but it will be taking place sometime this year.

Thaler said that AudCom should allow time for the WGs to come into compliance.

Chaplin said that WG P&Ps need to be approved by the Sponsor and only those would be audited. He also said that while they can look at any P&P, they will be constrained by time from working at too many of them.

Marks said that there will likely be conflict with current P&Ps as there is mandatory requirement for certain sections.

Grow said that there is typically a grace period. There are sponsors that have P&Ps based on previous baselines. The sponsor is responsible for reviewing the P&P of the WGs. There is an assumption is that all WGs will have a P&P.

Shellhammer said that there is an implication that having approved the baseline we have to take actions, but they have not informed us of any requirements.

Rosdahl said that at the Standards Board meeting that the idea Jan 1, 2010 would be the earliest for a requirement. In some Sponsors, the WG P&P is generated by the Sponsor. AudCom did make some

changes to the approved version based on 802 comments.

Thaler doesn't think it is correct to produce a document and start auditing right away, thinks that this should be at least a year.

Law said that the LMSC rules state that there should be generic WG rules that are then added to it by the WGs.

Rigsbee suggests that we pick out key people to work on a base WG P&P and individual WGs can override as appropriate.

EC Update on LMSC Policy and Procedures

Author:

Matthew Sherman

1st Vice Chair, IEEE 802

BAE Systems - ES

Matthew.Sherman@BAESystems.com

Date: March 9th, 2009

Summary of P&P Activities

- Current P&P can be found at
 - http://standards.ieee.org/board/aud/LMSC.pdf
- Waiting for AudCom approval of Nov 2008 P&P revision
 - AudCom will consider on 3/17/09
 - The unapproved revision can be found at
 - http://grouper.ieee.org/groups/802/PNP/2008-11/802.0-Creation_of_LMSC_OM_-_LMSC_P&P_Revision_Ballot_081113.pdf
- AudCom did pass questions to IEEE 802 from reviewer
 - Need to formulate response be Friday
 - Plan to have approval vote on response
- AudCom has posted Baseline Operating Procedures for IEEE Standards Working Groups
 - http://standards.ieee.org/board/aud/WG_PandP.doc
 - Approved and effective March 31, 2009
 - However Audit schedule has not been established so there is some time

Comments from AudCom reviewer

- 3.4.3 Who schedules the meetings?
 - Draft Response: The IEEE 802 Operations Manual will fix the time of EC meetings within Plenary sessions. Other meetings are scheuded by the LMSC Chair
- 4.1 Link in 4.1c is broken.
 - Draft Response: Should read subclause "1" and will be fixed
- 4.2 Need example of "habitual default of obligations"?
 - Draft Response: This is intentionally left to the discretion of the chair. Also such examples are not used elsewhere in the P&P and would take another revision cycle (4 months) on our P&P to modify

Sunday P&P Review Meeting

- Ran about 1/2 hour
- Discussed current status on AudCom review
- Discussed possible responses to AudCom questions
- Noted that Baseline WG P&P were posted
 - Debated what that meant

7.30 II EC meeting schedule (rules, SA, etc.)

Nikolich

3 10:25 AM

Nikolich presented the opening plenary agenda and the EC meeting schedule.

Kraemer asked if any meetings have restricted attendance.

Nikolich indicated that all the meetings are open.

7.33 DT ADJOURN SEC MEETING Nikolich 10:30 AM

Meeting adjourned at 10:29 am local time.

IEEE802 Monday Plenary Agenda

•	11:00 Welcome	Nikolich
	 Financial Report (Hawkins), 	
	 Patent Policy (Thompson), 	
	 Membership Policy and P&P update (Sherman), 	
	 New Member/Mentoring update (Thaler), 	
	 general announcements (tutorials, new PARs, etcRigsbee) 	- 20 minutes
	 Q&A on above topics 	- 10 minutes
•	TV Whitespace ECSG Exec Summary (Sherman)	- 5 minutes
•	Electronic Participation Experiment Results (Sherman) +Q&A	- 10 minutes
•	Closing remarks, notices, adjourn	- 5 minutes

EC meetings for the week

(held in Windsor)

•	Monday 7-8pm	open
•	Monday 8-9pm	open
•	Tuesday 9-noon	reserved (Nikolich)
•	Tuesday noon-1pm	open
•	Tuesday 1-2pm	open
•	Tuesday 3-5pm	open
•	Tuesday 6:30-8pm	open
•	Tuesday 8:00-10pm	open
•	Wed 12:30-1:30	Electronic Participation Experiment feedback (Sherman)
•	Wed 1:30-3pm	802 Task Force (Nikolich)
•	Wed 3-4pm	802 future budget discussion (Hawkins)
•	Wed 4-5pm	open
•	Wed 5-6	EC Retreat Planning (Thompson/Rigsbee)

Thursday 10-noon open
Thursday noon-1pm open
Thursday 1-2pm open
Thursday 5-7pm open

Meeting called to order at 11:00 am by Nikolich

Nikolich presented the agenda

- 1. Agenda
- 2. Welcome
 - Financial report (Hawkins)
 - Patent policy (Thompson)
 - Membership policy and P&P update (Sherman)
 - New Member/Mentoring update (Thaler)
 - General announcements (tutorials, new PARs, etc. Rigsbee)
 - Q&A on above topics
- 3. TV Whitespace ECSG summary (Sherman)
- 4. Electronic participation experiment results (Sherman)

The members of the 802 EC introduced themselves and stated their affiliations.

IEEE802 Monday Plenary Agenda

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	 Patent Policy (Thompson), 	
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•	Electronic Participation Experiment Results (Sherman) +Q&A	- 10 minutes
•	Closing remarks, notices, adjourn	- 5 minutes

Nikolich discussed the makeup of the IEEE Standards Association and 802's place in the SA. Nikolich introduced Bob Grow, Chair of the Standards Board.

IEEE 802 ORGANIZATION

EXECUTIVE COMMITTEE (EC)

CHAIR Paul Nikolich

WORKING GROUP/TAG CHAIRS

802.1 BRIDGING/ARCH Tony Jeffree 802.3 CSMA/CD David Law 802.11 WLAN Bruce Kraemer 802.18 TAG Radio Regulatory Mike Lynch 1st VICE CHAIR Mat Sherman

APPOINTED OFFICERS

2nd VICE CHAIR Pat Thaler

802.15 WPAN Bob Heile 802.16 BWA Roger Marks 802.17 ResPackRing John Lemon 802.19 TAG Coexistence Shellhammer EXECUTIVE SECY Buzz Rigsbee RECORDING SECY James Gilb

802.20 MBWA Mark Klerer 802.21 Handoff Vivek Gupta 802.22 WRAN Carl Stevenson

TREASURER John Hawkins MEMBER EMERITUS Geoff Thompson

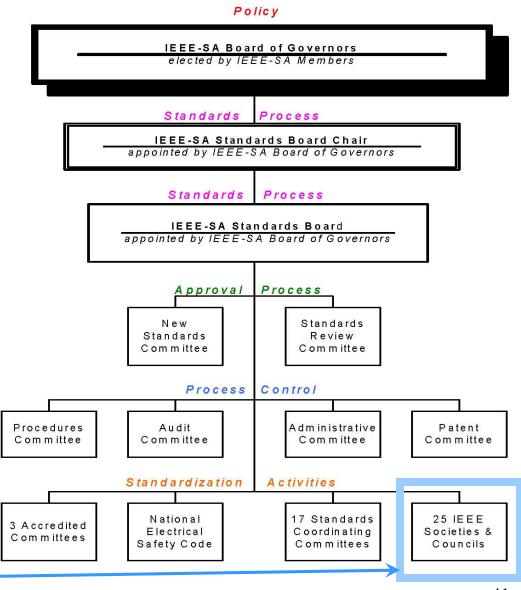
HIBERNATION

802.2 LLC (Dave Carlson) 802.12 Demand Priority (Pat Thaler)

DISBANDED

802.4 Token Bus802.6 DQDB802.7 Broadband TAG802.8 Fiber Optic TAG802.9 ISLAN802.10 Security802.14 CATV802.5 Token Ring

IEEE Standards Organization



IEEE 802 is here:

Nikolich introduced the IEEE Staff in attendance or who would be attending.

IEEE Staff Introductions

1. Michelle Turner Program Manager, Document Development

2. Michael Kipness: Program Manager, Technical Program Development

3. Kathryn Cush: Program Manager, Technical Program Development

4. Sue Vogel: Director, Technical Committee Programs

5. Susan Tatiner: Associate Managing Director Technical Program

Development and 802 Ombudsman

6. Edward Rashba: Director, New Business Ventures

Nikolich announced the awards that would be given for completed standards

Awards

IEEE Std 802.11k-2008 (Pub12 June 2008)

Stuart J. Kerry

Joseph Kwak

Richard H. Payne

Harry R. Worstell

Bernard Aboba

Simon Barber

Simon Black

Darwin Engwer

Peter Eclessine

Roger Durand

IEEE Std 802.11y-2008 (Pub 6 November 2008)

Bruce Kraemer

Peter Eclessine

IEEE Std 802.11r-2008 (Pub15 July 2008)

Stuart J. Kerry

Clint F. Chaplin

Bill Marshall

Michael Montemurro

Harry R. Worstell

Nancy Cam-Winget

Lily Chen

Jon Edney

Rajneesh Kumar

Jouni Malinen

Henry Ptasinski

Dorothy Stanley

 $Hawkins\ presented\ ``Mar 09 Opening Treas Rep Pg 1.pdf''$

IEEE Project 802 Statement of Operations New 2008 Planery Session

Nov 2008 Plenary Session

enary Session s, Tx

Dallas, Tx As of Mar 9, 2009

Session Income	dB	Est/Act Budget		Deviation
Net Registrations 77.9% 988 Early Registrations @ \$400 53 Cancellations @ \$350 15 Early cancellations @ \$400 3 Visa cancellations @ \$400	(18,550) (6,000)	1,268	1,400	(132)
22.0% 279 Registrations @ \$500 0 Cancellation @ \$500 4 Cancellation @ \$450 0.1% 1 Student @ \$150 0 Other credits @ \$100 Registraion Subtotal 0 Deadbeat Payment @ \$500	139,500 0 0 (1,800) 150 0 \$ 507,300	\$ 506,850 0	\$ 589,960 0	\$ (83,110)
Interest		4,731	1,400	3,331
Other (Hotel comps and commission)		65,508	75,000	(9,493)
TOTAL Session Income		\$ <i>577,088</i>	\$ 666,360	\$ (89,272)
Session Expenses		Est/ <i>Act</i>	Budget	Deviation
Audio Visual		29,520	25,500	(4,020)
Audit		0	0	0
Bank Charges		145	350	205
Copying		2,756	3,500	744
Credit Card Discounts & Fees		22,354	17,458	(4,896)
Equipment Expenses		637	15,000	14,363
Get IEEE 802 Conttribution		89,550	102,900	13,350
Insurance		0	0	0
Meeting Administration		92,593	101,610	9,017
Misc Expenses		3,816	* 3,500	(316)
Networking		60,714	70,000	9,286
Other Expenses		0	0	0
Phone & Electrical		1,816	2,000	185
Refreshments		125,184	150,000	24,816
Shipping		14,763	15,000	237
Social		50,490	50,000	(490)
Supplies		2,577	800	(1,777)
TOTAL Session Expense		496,915	557,618	60,703
NET Session Surplus/(Deficit)		80,173	108,742	(28,569)
Analysis Refreshments per registration Social per registration Meeting Admin per registration Surplus/(Loss) per registration		99 40 73 63	107 36 73 78	8 (4) (0) (14)

^{*} Misc items: Hotel gratuities, service awards, registration counter rentals, CD production expense

Cash recognized on hand as of Mar 9, 2009	\$ 1,233,257
Additional income for Mar 09 session	\$ -
Reserve for unpaid expenses for prior sessions	\$ (1,500) bank fees, CC fees, etc
Reserve for other outstanding commitments	\$ -
Income received for current session	\$ (38,000)
Expenses prepaid for current session	\$ 63,939
Expenses prepaid for future sessions	\$ -
Operating Reserve following this session	\$ 1,257,696

IEEE Project 802 Estimated Statement of Operations Mar 2009 Plenary Session Vancouver, BC

Meeting Income	Estimate	Budget	Variance
Registrations	1,050	1,200	(150)
Registration income	451,500	516,000	(64,500)
Cancellation refunds	(15,803)	(10,320)	
Deadbeat collections	0	0	0
Bank interest	2,500	1,400	1,100
Other income	65,083	75,000	(9,917)
TOTAL Meeting Income	\$ 503,281	\$ 582,080	(78,799)
Meeting Expenses	Estimate	Budget	Variance
Audio Visual Rentals	25,500	\$ 25,500	0
Audit	0	0	0
Bank Charges	350	350	0
Copying	3,000	3,500	500
Credit Card Discount	15,803	14,964	(839)
Equipment Expenses	2,000	2,500	500
Get IEEE 802 Contribution	75,975	88,200	12,225
Insurance	0	0	0
Meeting Administration	83,831	92,400	8,569
Misc Expenses	3,500	3,500	0
Network	85,000	70,000	(15,000)
Other Expenses Phone & Electrical	0 1,500	0 2,000	F00
Refreshments	120,000	150,000	500 30,000
Shipping	15,000	15,000	30,000
Social	55,000	50,000	(5,000)
Supplies	800	800	0
Other Discounts	0	0	0
	\$ 487,259	\$ 518,714	
TOTAL Meeting Expense	Ф 401,239	φ 510,/14	31,455
NET Meeting Income/Expense	\$ 16,022	\$ 63,366	(47,344)

Thompson presented the IEEE patent policy, slides 1-4

Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy. Participants:

- "Shall inform the IEEE (or cause the IEEE to be informed)" of the identity of each "holder of any potential Essential Patent Claims of which they are personally aware" if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
 - "Personal awareness" means that the participant "is personally aware that the holder may have a potential Essential Patent Claim," even if the participant is not personally aware of the specific patents or patent claims
- "Should inform the IEEE (or cause the IEEE to be informed)" of the identity
 of "any other holders of such potential Essential Patent Claims" (that is,
 third parties that are not affiliated with the participant, with the participant's
 employer, or with anyone else that the participant is from or otherwise
 represents)
- The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group

Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2

- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search



Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

http://standards.ieee.org/guides/bylaws/sect6-7.html#6

IEEE-SA Standards Board Operations Manual

http://standards.ieee.org/guides/opman/sect6.html#6.3

Material about the patent policy is available at

http://standards.ieee.org/board/pat/pat-material.html

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/board/pat/index.html

This slide set is available at http://standards.ieee.org/board/pat/pat-slideset.ppt



Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
 - Either speak up now or
 - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
 - Cause an LOA to be submitted



Other Guidelines for IEEE WG Meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
 - Technical considerations remain primary focus
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed ... do formally object.

See IEEE-SA Standards Board Operations Manual, clause 5.3.10 and "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" for more details.



Sherman tried to present, but ended up with the blue screen of death

Thaler indicated that she is available to advise and help new chairs and members.

Sherman tried again to present "VC09032009_r0_LMSC_P&P.ppt", but received a second blue screen of death.

Nikolich reviewed the Tutorial schedule.

Tutorial Schedule

Monday	Tuesday
1) Multi-Radio Power Conservation Management 6:30-8:00PM sponsor: V. Gupta	3) White Space Tutorial 6:30-9:00PM sponsor: M. Sherman
2) CFI 802.3 Support for IEEE 802.1AS Time and Synchronization 8:00-9:30PM sponsor: D. Law	4) IEEE-SA Patent Pool Collaboration with Via Licensing 9:00-10:00PM sponsor: P. Nikolich

Nikolich reviewed the EC meeting schedule for the week. and encouraged members to attend.	He stated that all of the meetings are open

EC meetings for the week

(held in Windsor)

•	Monday 7-8pm	open
•	Monday 8-9pm	open
•	Tuesday 9-noon	reserved (Nikolich)
•	Tuesday noon-1pm	open
•	Tuesday 1-2pm	open
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•	Wed 3-4pm	802 future budget discussion (Hawkins)
•	Wed 4-5pm	open
•	Wed 5-6	EC Retreat Planning (Thompson/Rigsbee)
•	Thursday 10-noon	open
•	Thursday noon-1pm	open

open

open

Thursday 1-2pm

Thursday 5-7pm

Rigsbee spoke regarding the hotel and meals

Sherman presented "VC1_09032009_r0_LMSC_Plenary_Meeting_P&P_Update.ppt"

LMSC Policy and Procedures Update

Author:

Matthew Sherman

1st Vice Chair, IEEE 802

BAE Systems - NS

Matthew.Sherman@BAESystems.com

Date: March 9th, 2009

What are the LMSC P&P?

- P&P is short hand for Policies and Procedures
- LMSC P&P are the 'rules' that govern the IEEE 802 LMSC
- LMSC P&P can be found at
 - http://standards.ieee.org/board/aud/LMSC.pdf
- Working groups also have P&P
- Other 'Governance' documents from
 - IEEE Standards Association
 - IEEE Computer Society
- P&P Review Session usually held Sunday Night before Plenary
 - Review current P&P issues
 - All participants welcome

Summary of P&P Activities

- Current P&P can be found at
 - http://standards.ieee.org/board/aud/LMSC.pdf
- Waiting for AudCom approval of Nov 2008 P&P revision
 - AudCom will consider on 3/17/09
 - The unapproved revision can be found at
 - http://grouper.ieee.org/groups/802/PNP/2008-11/802.0-Creation_of_LMSC_OM_-_LMSC_P&P_Revision_Ballot_081113.pdf
- AudCom did pass questions to IEEE 802 from reviewer
 - Need to formulate response be Friday
 - Plan to have approval vote on response
- AudCom has posted Baseline Operating Procedures for IEEE Standards Working Groups
 - http://standards.ieee.org/board/aud/WG_PandP.doc
 - Approved and effective March 31, 2009
 - However Audit schedule has not been established so there is some time

Questions?

- Contact Matthew Sherman
 - matthew.sherman@baesystems.com

Sherman presented "VC1_09032009_r0_LMSC_Plenary_Meeting_TV_Whitespace_Status.ppt" George Vlantis of ST micro asked where the information can be found.

Sherman referred to the web address in the presentation.

LMSC Update on TV Whitespace Status

Author:

Matthew Sherman

1st Vice Chair, IEEE 802

BAE Systems - NS

Matthew.Sherman@BAESystems.com

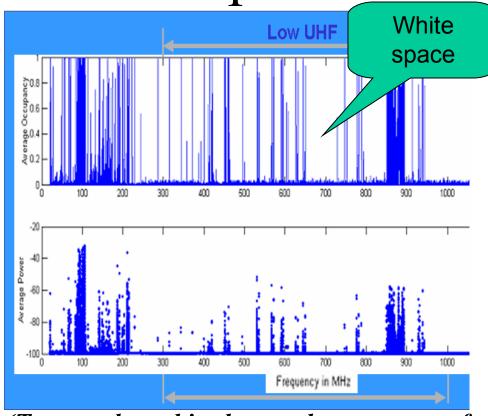
Date: March 9th, 2009

The TV Whitespace ECSG

- Recent FCC R&O on Unlicensed use of 'TV Whitespace' has created extensive interest across IEEE 802
- IEEE 802 charted the TV Whitespace ECSG to study key issues for operating in this band
 - Different from other Unlicensed Bands!
- Primary response to EC will be via the TV Whitespace Tutorial
 - If interested, please attend!

What is TV Whitespace?

- Assigned but unused frequencies between incumbents users
- Key technical issues
 - Protection of Incumbents
 - Sensing
 - Geolocation
 - Coexistence of TV Band Devices (TVBD)
 - Access to Incumbent and other data bases



(Test conducted in the rural sector west of

Ottawa, Canada)*

*- C. R. Stevenson, G. Chouinard, W. Caldwell, Tutorial on the P802.22.2 PAR for : "Recommended Practice for the Installation and Deployment of IEEE 802.22 Systems," IEEE802, San Diego, CA, 7/17/06

ECSG Tasks

- Assess the impact of the FCC White Space R&O on IEEE 802 activities
- Identify Use Cases of TV White Space Spectrum
- Identify what functions may be common across 802 technologies
- Begin technical discussion on how to enable coexistence between various 802 technologies in the shared TV white space spectrum
- Prepare a Tutorial for March Plenary
- Make recommendations to 802 EC by March 2009 on next steps
- This study group shall not develop a PAR and 5C

Overall stats

- ECSG has been in existence for 4 months and
 - has held 11 formal teleconference and larger number of ad hocs
 - Face to Face meetings at wireless interim
 - 54 documents posted (120 with revisions)
 - Aggregate attendance over 150 aggregate
 - Over 270 participants on reflector

Goals for March Plenary

- Approve tutorial material
 - Chair is concerned insufficient time will exist to approve tutorials before presented
 - Will present as individual opinions rather than ECSG if necessary
- Conduct tutorial on TV Whitespace
 - Scheduled for Tues. 3/10/09 6:30 PM − 9 PM
 - EC Members are especially encouraged to attend
- Complete recommendations for EC

Agenda for Plenary can be found at:

https://mentor.ieee.org/802-sg-whitespace/dcn/09/sg-whitespace-09-0049-02-0000-agenda-for-march-2009-plenary-meetings.xls

Prepare a Tutorial for March Plenary

- Tutorial will be held Tuesday night (6:30 PM to 9 PM)
 - First 1.5 hours responds to EC questions
 - Additional hour on related topics
- Current Agenda

1.00	WELCOME / INTRODUCTIONS / RECOMMENDATIONS (Pending)	Sherman	5	06:30 PM
2.00	US AND NON-US REGULATORY ENVIRONMENT (09/48r3)	Rayment	30	06:35 PM
3.00	USE CASES FOR TV WHITESPACE (09/51r2)	Cummings	10	07:05 PM
4.00	COEXISTANCE BETWEEN 802 STANDARDS IN TV WHITESPACE (09/40)	Shellh am mer	15	07:15 PM
5.00	COMMON FUNCTIONS ACROSS 802 FOR TV WHITESPACE (None)		0	07:30 PM
5.01	COMMON FUNCTIONS ACROSS 802 FOR TV WHITESPACE (09/46)	Paine	5	07:30 PM
5.02	COMMON FUNCTIONS ACROSS 802 FOR TV WHITESPACE (09/39)	Goldh am mer	10	07:35 PM
6.00	QUESTIONS AND ANSWERS	Sherman	15	07:45 PM
7.00	SECURITY FOR TV WHTIESPACE (09/45)	Reznik	10	08:00 PM
8.00	STANDARDS ACTIVITIES RELATING TO TV WHITESPACE		0	08:10 PM
9.00	IEEE 802.22 (Pending)	Chouinard	10	08:10 PM
10.00	IEEE SCC 41 (Pending)	Harada	10	08:20 PM
11.00	ITU / ETSI (09/47)	Saeed	10	08:30 PM
12.00	SDR FORUM (09/50)	Pucker	10	08:40 PM
13.00	QUESTIONS AND ANSWERS	Sherman	10	08:50 PM

Make recommendations to 802 EC by March 2009 on next steps

- Currently approved recommendations include
 - The ECSG recommends that IEEE 802 standards operating in the TV Whitespace seeks to support techniques that protect information from the database.
 - The ECSG recommends that IEEE 802 have a coordinated approach (across all WG) to standards in TV Whitespace.
 - The ECSG recommends that IEEE 802 foster cooperation between species of 802 devices in TV Whitespace spectrum.
 - The ECSG recommends that IEEE 802 establish White Space liaisons as necessary with other SDOs.
 - The ECSG recommends that the EC consider the content of document 09/51r2 in response to its questions on Use Cases for TV Whitespace spectrum. (Paraphrased)

Sherman presented "VC1_09032009_r1_EC_Opening_Meeting_-_Electronic_Participation.ppt"

Arthur Merit, Cadence Design systems – Do the electronic participants receive attendance credit?

Sherman – In this experiment, no, but it is under consideration.

Merit – If you give attendance credit, it may change the nature of the group.

Sherman – Feels reducing the costs will improve standards.

From the floor – If the person calls in and participates, who pays the economic burden? Thinks electronic participation is fine, but needs to balance the costs.

From the floor – You can make good use of electronic meetings when the group knows each other and has an agreed plan of action. Otherwise, face to face time is important to work out differences.

From the floor – Agrees with the previous individual. The key is to get the attention of the participants, will be more difficult to have that with electronic participation. It would be useful for people who are monitoring the process.

From the floor – Largely a one-way flow of information. It really doesn't work when there is a large number of active participants. For individuals where English is not the first language. Even the attendees in person reading email get a lot more from being in the room.

8.01 PL IEEE 802 PLENARY MEETING ENDS

12:00 PM

Meeting adjourned at 11:58 am

Key to agenda items:

ME - Motion, External MI - Motion, Internal

DT- Discussion Topic II - Information Item

Special Orders

Respectfully submitted James Gilb IEEE 802 recording secretary

EC Update on the Electronic Participation Experiment

Author:

Matthew Sherman
Chair, IEEE 802 TV Whitespace ECSG
BAE Systems - ES
Matthew.Sherman@BAESystems.com

Date: March 9th, 2009

Background

- The electronic participation (EP) experiment was conducted at the January 2009 wireless interim
 - Prompted by desire of some TV Whitespace (TVWS) ECSG members to participate electronically at Face to Face Interim meetings
 - Not explicitly prohibited by rules but historically not permitted
- Special permission was granted by the IEEE 802 Chair for EP in TVWS meeting at the wireless interim if done as an experiment
 - Must have hypothesis
 - Must have metrics and collect data to test hypothesis
 - No voting or attendance credit was permitted for electronic participants

EP Facilities Provided

- Telephone line in conference room
- Online presentation facility with full teleconference
 - Electronic participants could view document
 - Electronic participants could interact with F2F participants
 - Electronic participants could participate in straw polls
- Hybrid was made available so that phone line and microphones / speaker system could be combined with high quality
- Microphones with on off switches
 - Hotel had to switch out existing microphones

Hypothesis and Metrics

- **Hypothesis:** The quality of resulting standards is higher if other IEEE 802 WG / external organizations can participate electronically at interim sessions vs not having electronic participation at those sessions.
- Metrics: Strawpolls as follows
 - How did you participate in the meeting electronically or non-electronically?
 (Electronically / Non-electronically)
 - Do you feel that the meeting was conducted more or less fairly with electronic participants than without? (-5/+5)
 - Did having electronic participation available increase or decrease your effectiveness in the standards process? (-5/+5)
 - Did having electronic participation available increase or decrease your ability to participate in the standards process vs not having electronic participation? (-5/+5)
 - Would you participate electronically if you were required to pay the incremental costs for providing electronic participation? (Yes / No)
 - Would you participate electronically if you were required to pay the full registration fee (but no voting or attendance credit)? (Yes / No)

Results

How did you participate in the meeting - electronically or non-electronically?

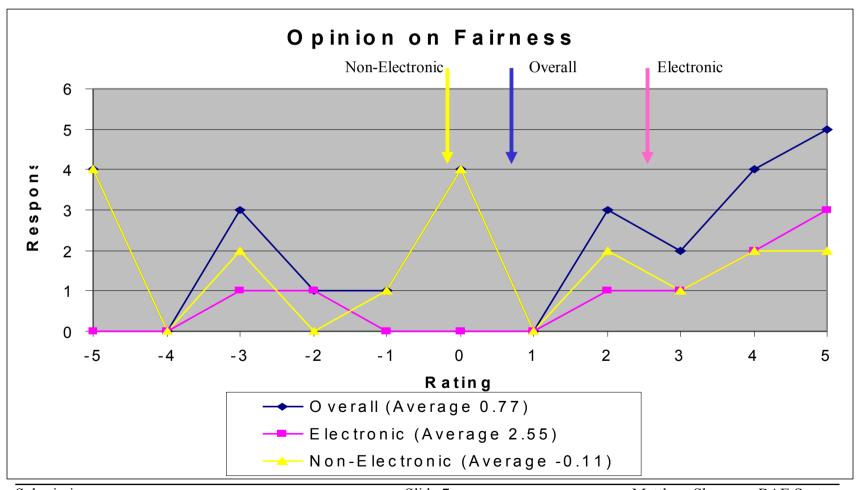
• Electronic: 9

• Non-Electronic:17 67%

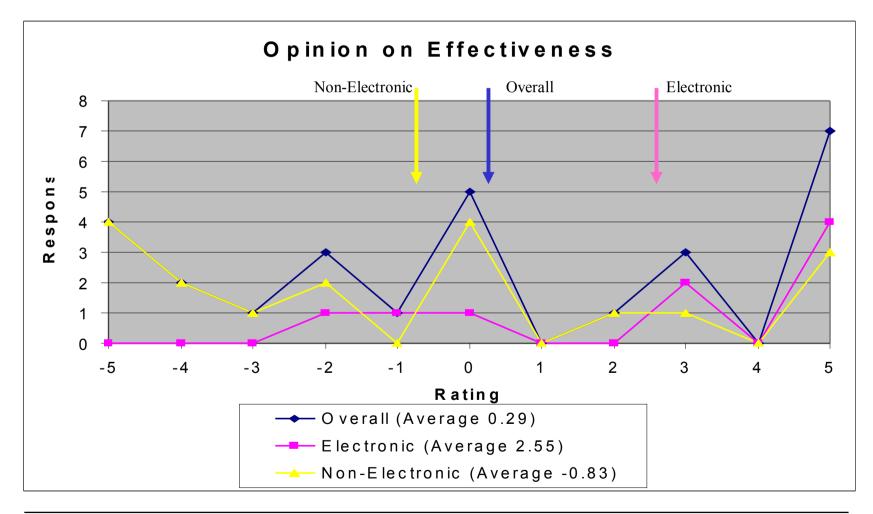
• Both (counted as Non):1

Poll results were heavily correlated with electronic vs non-electronic participation.
The perception was generally positive for those participating electronically
The perception was slightly negative for those who participated non-electronically
(But individual results tended towards the extremes)

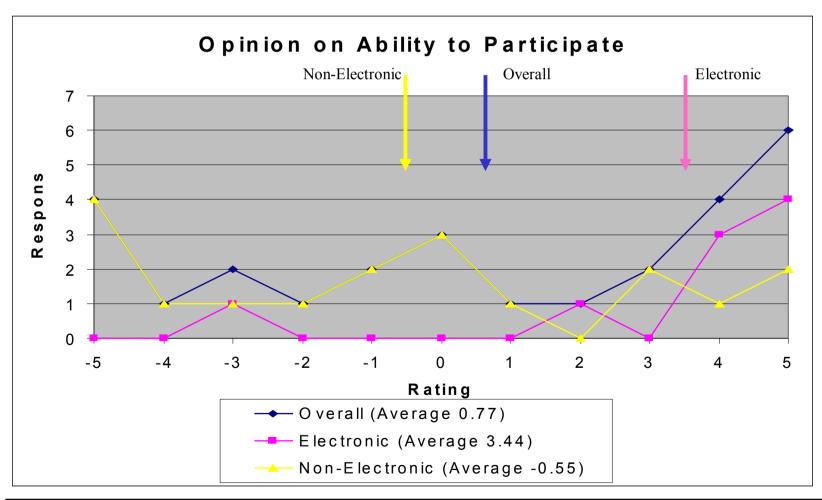
Do you feel that the meeting was conducted more or less fairly with electronic participants than without? (-5/+5)



Did having electronic participation available increase or decrease your effectiveness in the standards process? (-5/+5)



Did having electronic participation available increase or decrease your ability to participate in the standards process vs not having electronic participation? (-5/+5)



Would you participate electronically if you were required to pay the incremental costs for providing electronic participation? (Yes / No)

• Electronic Yes: 86% No: 14%

• Non-Electronic Yes: 59% No: 41%

• All Yes: 67% No: 33%

Would you participate electronically if you were required to pay the full registration fee (but no voting or attendance credit)? (Yes / No)

• Electronic Yes: 0% No: 100%

• Non-Electronic Yes: 6% No: 94%

• All Yes: 4% No: 96%

Other notes

- Excel spreadsheet for calculations available privately to EC members
 - Contains information on an invalid poll
 - Contains comments from participants
 - Not 'pretty' in organization
- Numerous e-mails were received for and against (private and public)
 - This was a very controversial topic

Takeaways of TV WS Chair

- The metrics say a lot, but were not really appropriate to test the hypothesis
 - Can't say if 'resulting standards' really were better due to outside participation
- Some things worked well
 - Hybrids are essential, but voice / presentation access worked well
 - Switches on Microphones weren't really required for this venue
- Some things need more work
 - Voting / straw poll tools don't really handle complex motions / polling
 - More experimentation would be required before general usage permitted
- We live in a community of 'haves and have-nots'
 - Many people want to participate in 802 standards and can't because of the cost
 - Especially true for current economic down turn
- Electronic participation may provide a lower cost alternative for have-nots
 - Further cost analysis required
 - Does it lower the overall cost of making standards without hurting quality?
- Many argue electronic participation is no substitute for 'being there'
 - True, but msot agree that EP tools have their place in standards development
 - Where is the balance?
 - Why not let participants decide where the right balance is
 - If practical tools / approach exist, they should be made available to IEEE 802 participants
 - But the tools / approach isn't there yet