

**MINUTES (Unconfirmed) - IEEE 802 LMSC  
EXECUTIVE COMMITTEE MEETING, Revision 2**

Monday, November 16, 2009 – 8:00 a.m.  
All times Eastern Standard Time (EST)

Atlanta, GA

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  
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  
John Lemon - Chair, IEEE 802.17 – Resilient Packet Ring 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  
Wendong Hu – Chair, IEEE 802.22 – Wireless Regional Area Networks  
Geoff Thompson - Member Emeritus (non-voting)

EC members absent:

John Hawkins - Treasurer, IEEE 802 LAN/MAN Standards Committee

r02

AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING

Monday 8:00AM -10:30AM

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

Special Orders

Category (\* = consent agenda)

1.00	MEETING CALLED TO ORDER	Nikolich	1	08:00 AM
Nikolich called the meeting to order at 8:00 am.				
2.00	MI APPROVE OR MODIFY AGENDA	Nikolich	4	08:01 AM

Nikolich presented the agenda

Marks asked to add an information item on 802.16 reaffirmation, Item added as 7.15

Motion to approve the agenda by Sherman, seconded by Thaler  
Vote is 13/0/0, motion passes

Monday 8:00AM -10:30AM

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**Special Orders**

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1.00		MEETING CALLED TO ORDER	Nikolich	1	08:00 AM
2.00	MI	APPROVE OR MODIFY AGENDA	Nikolich	4	08:01 AM
3.00	*	APPROVE / MODIFY Minutes of previous opening and closing meeting	Nikolich	0	08:05 AM
					08:05 AM
4.00		EC member affiliation updates	Nikolich	2	08:05 AM
4.01					08:07 AM
4.02					08:07 AM
					08:07 AM
		BoG and Stds Board items			08:07 AM
5.00	II	BoG Actions	Nikolich	5	08:07 AM
5.01	II	Stds Board Actions (approved projects, standards, withdrawals)	Nikolich	5	08:12 AM
5.02	II	PARS to NesCom	Nikolich	2	08:17 AM
5.03	II	List of Drafts to Sponsor Ballot	Nikolich	2	08:19 AM
5.04	II	List of Drafts to Revcom	Nikolich	2	08:21 AM
5.05					08:23 AM
					08:23 AM
		SA items			08:23 AM
6.00	II	IEEE Staff Introductions	Nikolich	2	08:23 AM
6.01	II	802 Task Force update	Nikolich	5	08:25 AM
6.02	II	Update on sales of IEEE standards	Gilb	5	08:30 AM
6.03	II	Attendance support update	Gilb	5	08:35 AM
6.04	II	SA MOU with TTA	Law/Nikolich	5	08:40 AM
6.05	II	802 Input to NIST regarding Smart Grid	Kraemer	5	08:45 AM
6.06	II				08:50 AM
6.07	II				08:50 AM
6.08	II				08:50 AM
6.09	II				08:50 AM
6.10	II				08:50 AM
		LMSC items			08:50 AM
					08:50 AM
7.00	II	LMSC Email Ballot Recap	Nikolich	10	08:50 AM
7.01	II	LMSC Meeting Fee Waivers	Nikolich	5	09:00 AM
7.02	II	Tutorial schedule	Nikolich	5	09:05 AM
7.03	II	Treasurer's report	Hawkins/ Rigsbee	5	09:10 AM
7.04	II	nNA update	Rigsbee	2	09:15 AM
7.05	II	ECSG Emergency services report	Thompson	5	09:17 AM
7.06	II	Downloadable content format	Thompson	5	09:22 AM
7.07	II	TVWS Coexistence PAR and 802.19 Organization	Shellhammer	10	09:27 AM
7.08	II	EC Workshop action item review	Nikolich	15	09:37 AM
7.09	ME	IMT advanced update	Lynch	5	09:52 AM

7.10	II	P&P review	Sherman	10	09:57 AM
7.11	II	30th anniversary shirts	Rigsbee	5	10:07 AM
7.12	MI	Changes to registration and hotel deadlines	Rigsbee	5	10:12 AM
7.13	II	IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet press release	Law	5	10:17 AM
7.14	II	Notice of Study Groups under consideration/status of existing SGs	WG chairs	5	10:22 AM
7.15	II	802.16.2 reaffirmation	Marks	1	10:27 AM
7.16	II				10:28 AM
7.17	II				10:28 AM
7.18	II				10:28 AM
7.19	II				10:28 AM
7.20	II				10:28 AM
7.21	II				10:28 AM
7.22	II				10:28 AM
7.23	II				10:28 AM
7.24	MI				10:28 AM
7.25	II				10:28 AM
7.26	DT				10:28 AM
7.27	DT				10:28 AM
7.28	DT				10:28 AM
7.29	II				10:28 AM
7.30	II	EC meeting schedule (rules, SA, etc.)	Nikolich	3	10:28 AM
7.31	MI				10:31 AM
7.32					10:31 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



Standards Project Authorization

1. <u>August 25, 1979</u> Date of Request		Project No. <u>802</u> Approved: <u>3/13/80</u> Date	
<input checked="" type="checkbox"/> New Standard		<input type="checkbox"/> Reaffirmation of	
<input type="checkbox"/> Revision of _____ Standard No.		<input type="checkbox"/> Withdrawal of _____ Standard No.	
3. Project Title: <u>Local network for Computer Interconnection.</u>			
4. Scope and Purpose of Proposed Standard: <u>The proposed standard will apply to Data Processing devices which need to communicate with each other at a moderate data rate (1 M bit/sec) and within a local area (physical data path up to 4 km). The purpose of the proposed standard is to provide compatibility between devices of different manufacture so that the hardware and software customization necessary for effective data communication is minimized or eliminated.</u>			
5. Sponsor: <u>Computer Standards</u> Technical Committee		<u>Computer Society</u> Society	
5a. Proposed ANSI Committee: <u>X3</u>		ANSI Project #: _____ Date Approved: _____	
6. Proposed Coordination: <u>Dr. Herbert Hecht Computer Society Representative to X3. Also coordination with IEC Committees will be undertaken. Minutes will be mailed to ANSI x 3 Secretary.</u>			
Method of Coordination: <u>Communications Society</u>		<u>Computer Sids. Committee (added by amendment 9/17/81 StB meeting)</u>	
7. Name of Group that will Write the Standard <u>Microprocessor Standards</u> Subcommittee <u>Local Network</u> Working Group			
8. Estimated Final Ballot Date <u>December 1982</u> To Technical Committee		<u>March 1983</u> To Standards Board	
9. Person Delegated to Receive Communications and Conduct Liaison with Interested Bodies: Name: <u>Maris Graube</u> Company: <u>Tektronix, Inc.</u> Street address: <u>P. O. Box 500, M/S 5B-188</u> <u>Beaverton, OR 97077 (503) 644-0161 Ext. 6234</u> City      State      Zip Code      Telephone			
10. Submitted by: Name: <u>Dr. Robert G. Stewart</u> Company: <u>Stewart Research Enterprises</u> <u>1650 Belvoir Drive</u> <u>Los Altos, CA 94022 (415) 941-6699</u> City      State      Zip Code      Telephone			

NOV 2009  
IEEE 802  
LMSC

Opening EC Meeting  
8 AM-10:30AM

3.00 \* APPROVE / MODIFY Minutes of previous opening and closing meeting Nikolich 0 08:05 AM

Approved as a part of the consent agenda.

4.00 EC member affiliation updates Nikolich 2 08:05 AM

Nikolich asked for affiliation changes

Thompson is now affiliated with Interdigital through GraCaSi

r02 AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING

BoG and Stds Board items 08:07 AM

5.00 II BoG Actions Nikolich 5 08:07 AM

Nikolich said that there was no BoG meeting and hence no issues to report.

# December 09

## SA BoG Update

- BoG has not met since JUN09, no actions to report
- Meeting in Piscatway NJ 3/4DEC09
- Potential Items of interest to 802 community
  - Execute a IEEE/ISO Registration Authority agreement, revise pricing
  - Status update on the Power Over Enet patent pool
  - Status update on the IEEE Conformity Assessment Program
  - Status update on Get802 budget plans

Nikolich presented a summary of the SA Standards Board actions

Nikolich asked Jeffree how many projects are open in 802.1

Jeffree has not recently counted.

Thompson has indicated that 802.1Q is overdue for a revision.

Jeffree indicated that there was a plan to take care of this.

Nikolich presented on the process of approving a PAR based on the workshop discussion.

Nikolich asked Jeffree who was running the 802.0 project.

Jeffree indicated that he was running it but needs a technical editor

Gilb indicated that he would be willing to be the technical editor

Jeffree said that a chair for the group is not required if there is an editor.

Nikolich said that by Friday there should be a new cross-802 group working on the project

Jeffree indicated that the work will take place under 802.1

# SEP through OCT 2009

## SA Standards Board Actions

### Standards Actions

#### **New Standards:**

**P802.3at/D4.2** Amend: DTE Power Via the MDI Enhancement

**P802.3av/D3.4** Amend: PHY and MGMT Parameters for 10Gb/s Passive Optical Networks

**P802.3bc/D3.1** Amend: Ethernet Organizationally Specific Type, Length, Values (TLVs)

**P802.11n/D11.0** Amend: Enhancements for Higher Throughput

**P802.11w/D11.0** Amend: Protected Management Frames

**P802.15.3c/D13** Amend: Millimeter-Wave Based Alternative Physical Layer Extension

#### **Revised Standards:**

**P802.1AB/D6.0** Station and Media Access Control Connectivity Discovery

**Reaffirmations:** none

**Corrigendum:** none

**Extensions:** none

**Withdrawals:** none



# SEP through OCT 2009

## SA Standards Board Actions

### Project Actions

#### **New Projects:**

**P802.1Qbc** Amend: Provider Bridging - Remote Customer Service Interfaces

**P802.1Qbe** Amend: Multiple Backbone Registration Protocol (MIRP)

**P802.1Qbf** Amend: Traffic Engineering (PBB-TE) Infrastructure Segment Protection

**Modified PAR:**      **P802.1AR** Secure Device Identity

**Revisions:**            none

**Reaffirmations:**    none

**Withdrawals:**        **P802.19** Recommended Practice on Methods for Coexistence

**Extensions:**         **P802.1aq** Amend: Shortest Path Bridging

# EC Workshop Action

## 802 Architecture

- Emphasize that conformance to 802 O&A is part of the evaluation criteria by the EC in approving a PAR and that the text in the O&A be an effective tool - Action: Nikolich, Implementation: WG/TAG Chairs
- WG chairs name at least one candidate to:
  - Champion 802 O&A within the WG
  - Does work on resolving comments
- EC seeks qualified editor who has support for the project – Nikolich, EC
- EC seeks qualified, supported chair of O&A project from 802 wide – EC
- WG chairs announce the 802 O&A revision work to the working groups chairs, via email and at next WG opening plenary. – Nikolich, WG/TAG Chairs

Nikolich presented the PARs that are scheduled to go to NesCom

Nikolich asked if there were any maintenance PARs for this week, none were indicated.

Nikolich said that there were no PARs due to timeout this year.

Jeffree said that 802.1AR is strictly due to timeout this year, but 802.1AR is done.

Marks said that 802.16h is due to timeout this year and they will be asking for another PAR extension at the December Standards Board meeting. This is one of the PARs for approval at this meeting.

# Draft PARs to NesCom

1. P802.1Qbg amend: edge virtual bridging
  2. P802.1Qbh amend: bridge port extension
  3. P802.1Qaz PAR mod: enhanced transmission selection for bandwidth sharing between traffic classes
  4. P802.3bf amend: MAC service interface and mgmt params to support time synchronization protocols
  5. P802.11 amend: TV white spaces operation
  6. P802.11 amend: prioritization of management frames
  7. P802.16h amend: Improved Coex Mechanisms for License-Exempt Operation PAR extension
  8. P802.17d revision of 802.17-2004
  9. P802.19 new: Standard for TV white space coexistence mechanisms
  10. P802.21c amend: single radio handovers
  11. P802.22 PAR modification: clarify scope
  12. P802.22.3 new: Standard for scalable WRAN operations
- Maintenance PARs
    - tbd

802.1 - 802.1Qat, 802.1as (potentially)

802.3 - 802.3ba (unconditional)

802.11 - none

802.15 - none

802.16 - none

802.17 - none

802.20 - 802.20a (MIB amendment)

802.21 - none

802.22 - none

# Draft Standards to Sponsor Ballot

- Check with EC members
- 802.01: dot1Qat, dot1AS
- 802.03: dot3ba,
- 802.11: none
- 802.15: none
- 802.16: none
- 802.17: none
- 802.20: dot20a
- 802.21: none
- 802.22: none

802.1 - 802.1aj, 802.1Qab, 802.1AR, 802.1x-rev

802.3 - 802.3bb (presubmitted)

802.11 - none

802.15 - none

802.16 - 802.16h

802.17 - 802.17c

802.20 - 802.20.2 (conditional), 802.20.3 (conditional)

802.21 - none

802.22 - 802.22.1

# Draft Standards to RevCom

- Check with EC members
- 802.01: dot1aj, dot1Qav, dot1AR, dot1X-rev
- 802.03: dot3bb,
- 802.11: none
- 802.15: none
- 802.16: dot16h
- 802.17: dot17c (cond)
- 802.20: dot20.2 (cond), dot20.3 (cond)
- 802.21: none
- 802.22: dot22.1



Nikolich presented the SA membership from 802

Jeffrey asked about the withdrawing 802.1f. 802.3 refers to 802.1f, but it is allowed to refer to a withdrawn standard. In his opinion it is OK to allow 802.1f to be administratively withdrawn.

Thompson disagreed and said that if it was referred to in the 5C, there should be a document

Law said that 802.1f is on the list for automatic withdraw and does not affect 802.3

Nikolich presented the IEEE staff present at the meeting. There is a new member, Alphesh Shah, Strategic Business Development Manager, who is not receiving a fee waiver because he is not here directly in support of 802

# 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

Next Meeting: 6-8DEC09 in Piscataway NJ

# 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. Susan Tatiner:            Associate Managing Director Technical Program  
Development and 802 Ombudsman
5. Moira Patterson:        Senior Administrator, IEEE-SA Governance &  
International Programs IEEE Standards Activities.
6. Alphesh Shah:            Strategic Business Development Manager

Nikolich presented the 802 Task Force agenda

Nikolich move the status of China's BWIPs communications to 3:30-4:00 pm, with Nikolich, Kraemer and Marks as required people.

# IEEE-SA/802 Task Force

- Wednesday 2-3:30pm
- Tentative Agenda
  1. ISO/IEC JTC1 WG1 status update (Kipness)
  2. Registration Authority – status ISO agreement, BoG plans (Nikolich)
  3. Response from IEEE to 802 Letter 10min (Tatiner)
    1. Sales status of Sep 09 approved 802 Standards 5min (Tatiner)
  4. Status of TTA MOU 5min (Patterson/Law)
  5. GetIEEE802 2010 budget – Nikolich
  6. Action item review – Nikolich
  7. Adjourn
  
- 3:30-4:00            Status of China BWIPs communications and other 802 related Chinese standards activities (Nikolich, Kramer, Marks)

Gilb presented Standards-publishing-2009.odp

Multiple EC members noted that there were still issues in finding standards online and in purchasing them.

# **IEEE-SA Standards Publishing Performance Second Half 2009**

**James P. K. Gilb**

**Atlanta – November 2009**

# Background

- ▣ EC has noted many issues with availability of published standards
  - Time from approval to publication
  - Time from publication until available on:
    - IEEE shop
    - IEEE Xplore
  - Difficulty in searching for standards
  - Difficulty in buying standards



# Recent results with publication

- Since 2009 CD (Nov. 2008)
  - 21 standards published
  - 16 with 2009 approval dates
  - 7 approved at September RevCom
- At July meeting, EC resolved to track time from publication until standards available
  - What were the results?

# Publication times

- RevCom approvals on 9/11/2009
  - 802.1AB - 09/17/2009
  - 802.3bc - 09/28/2009
  - 802.11w - 09/30/2009
  - 802.15.3c - 10/12/2008
  - 802.11n - 10/30/2009
  - 802.3at - 10/30/2009
  - 802.3av - 10/30/2009
- Shortest 6 days, longest 49 days

# Examples of Time to availability

- 802.15.3c was available on Xplore the same day it was published
- 802.11n, 802.3av and 802.3av were available on IEEE shop on publication day (Xplore access was not available for a few days).
- Still need to find a way to automatically go from publication to availability
  - Should have title, scope and purpose from PAR automatically on both sites

# Recognition for IEEE-SA Publication Staff

- Editing staff (lead by Kim Breitfelder) has done a great job getting standards published quickly
- Don Messina credits (abbreviated, mistakes are mine)
  - His staff: Michelle Tuner, Lisa Perry, Debra Best, Linda Sibilia, Esateta Corbin
  - 802 Liaisons: Mike Kipness and Kathryn Cush
  - Contract editors: e.g., Catherine Berger
  - IEEE PUBs IDAMS: Adam Philippidis and his staff, Kim Breitfelder, Markus Plessel

# Conclusion

- Recognize that one portion of development to availability has improved
  - Example: Michelle Turner asked for 802.15.3c files in advance of RevCom approval so they could be ready as soon as possible for publication.
- 802 LMSC should applaud good work just as we provide constructive criticism for substandard performance.

Gilb presented Attendance-tool-support-v00.odp

Nikolich scheduled a meeting on Wednesday from 1-2 pm to discuss this issue

# Attendance tool Support

**James P. K. Gilb**

**Atlanta – November 2009**



# Background

- IEEE has produced web-based attendance gathering software
- IEEE 802 LMSC has not directly paid for this development
- IEEE 802 LMSC does not have access to code base to modify
- IEEE-SA is no longer providing on-site support for tool



# Support issues

- Majority of IMAT problems are with webid
  - Larger issue as webid is used for many things
  - Some attendees create multiple webids
    - and blame IEEE volunteers for mistakes that the attendees have created.
- The collection interface could be improved
  - Mostly simple HTML changes
- Administration interface appears to be mostly debugged

# Enhancement issue

- There is no way to automatically detect duplicate webids/SA PINs
- Ideal would be that webid/SA PIN is tied to registration
  - Should reduce multiple webids
  - Easier to find deadbeats
- IEEE has agreed to allow Face to Face events to use webid as part of registration
  - Who will pay for new software?

# IEEE Support Proposal

- USA time zones (with the exception of Hawaii): \$1,150 per day for up to 14 hours support/day
- Hawaii and China (Beijing) time zones: \$1,400 per day for up to 14 hours support/day
- No travel is included

# 802 LMSC options

- Self support
  - Ask a friend, group IMAT administrator
- Pay IEEE support fees
- Purchase or contract development of new attendance software
- TSOL (true sounds of liberty)
  - Users are on their own, if they don't follow instructions, they are out of luck

# Self support ideas

- Attendee is responsible to maintain and know webid, just as email address is require
  - Write into OpsMan
  - Attendance issues are Attendee's responsibility
- Have pre-configured webids for users who can't create webid at meeting
  - For example, 802user1, 802user2, etc.
  - Local administrator knows password, reset after meeting.

# Pay IEEE Support Options

- Instead of live support, request finite turn
  - Reset password/retrieve webid - 12 hrs
  - Manually create new webid - 24 hrs
- Allow attendance designee to merge accounts
  - May already be working fine, need to verify
- Any payment shall be based on agreed performance criteria
- On-site support is not as important as timely support

# Purchase New Attendance Software

- Could be outright purchase (code rights, etc.)
- Pay for open source development
- Rent via per meeting/per user fee (all support requirements borne by supplier)
- Contract specific enhancements
  - For IMAT, IEEE has all rights, we have none
  - For suppliers, rights may be negotiable
- You get what you pay for

# TSOL

- Libertarian approach
  - Attendees unable to figure out the system would be challenged to develop standards
  - Is the current policy, attendees are responsible for webid
- Vast majority of attendees have no problems
  - As more people learn how to use system, we increase self-support group
- Requires specific software management capabilities so 802 can solve its own problems.



# Conclusions

- 802 EC needs to make clear decision on direction
- Need vote at closing plenary or via email to select direction.

Law discussed the MOU. In the MOU, a liaison is allowed with TTA, he will ask 802.3 to nominate an observer. Some groups have been contacted regarding this. For other groups, this is an announcement that it is possible.

Marks asked what the rights were of the observer.

Law said that it was only a liaison, the person can attend and present reports.

Moira (IEEE) - 802.3, 802.11, 802.15, 802.16 and 802.21 were contacted.

Marks asked if this required WG approval

Law pointed that the rules indicated that this is a formal liaison and it should be voted on at the WG and EC levels, but others have different opinions.

Kraemer asked if it was one per WG or one for the entire LMSC

Law said that it was one per WG

Nikolich asked that the WGs

Kraemer spoke on NIST and smart grid. NIST has asked for input from the IEEE. In 2009, there was rapid process to identify standards that could be used in smart grid. This was completed in August 2009. There is a specific action plan for how wireless should be used and a meeting was held. NIST is setting up a board of governors for this activity. There is also an interoperability panel that is open, this includes Klerer, Heile and Kraemer. There is a tutorial tonight to discuss this in more depth.

LMSC items

Nikolich presented the LMSC email ballot results.

# LMSC Email Ballot Recap

<u>close date</u>		<u>yes/no/abs/dnv</u>	
• 08SEP	802.15.4c PR	11/01/00/04	pass
• 10SEP	802.3at, av and bc PRs	16/00/00/00	pass
• 10SEP	802.11n PR	09/00/00/07	pass
• 06OCT	IMT-Adv PR	15/00/00/01	pass
• 16OCT	802.15.3c PR	16/00/00/00	pass
• 28OCT	Fwd 802.1Qau to SB	14/00/00/02	pass

Nikolich presented the meeting fee waivers. There were no waivers for tutorial participants.

# Meeting Fee Waivers

- The following individuals have had their registration fees waived for this plenary session by the LMSC chair.
  - Staff: Turner, Kipness, Cush, Tatiner, Patterson
  - Invited Participants
    - none

Nikolich presented the Tutorial schedule and asked for a summary from the sponsors

# Tutorial Slot Schedule

<b>Monday</b>	<b>Tuesday</b>
<b>1) Call For Interest: 40Gb/s Ethernet single-mode</b> 6:00-7:30PM      sponsor: D Law	
<b>2) Smart Grid – Status and Activities</b> 7:30-9:00PM      sponsor: Kraemer/Heile	
<b>2) Edge Virtual Bridging</b> 9:00-10:30PM      sponsor: Thaler/Jeffree	

Rigsbee presented the treasurer's report, TreasOpeningReportNov09.pdf

Rigsbee will forward the email from Hawkins to the EC list.

Rigsbee said that we are on track to meet our hotel room requirements

Rigsbee presented the Get IEEE 802 update, Get IEEE 802 November 2009 update.pdf

Marks asked if the standards were available 6 months after publication or if there was a delay in putting them up.

Rigsbee did not have that data.

Law asked about 802.21-2008, which shows 21 Jan 2010 as a publication date.

Marks indicated that there were errors for 802.16 as well.



**IEEE Project 802**  
**Statement of Operations**  
**Jul 2009 Plenary Session**  
**San Francisco, CA**  
**As of Nov 14, 2009**

**Draft**

Session Income	dB	Est/Act	Budget	Deviation
<b>Net Registrations</b>		1,148	1,100	48
77.9% 894 Early Registrations @ \$400	\$ 357,600			
20 Cancellations @ \$350	(7,000)			
9 Early cancellations @ \$400	(3,600)			
0 Visa cancellations @ \$400	0			
22.1% 254 Registrations @ \$500	127,000			
0 Cancellation @ \$500	0			
2 Cancellation @ \$450	(900)			
0.0% 0 Student @ \$150	0			
0 Other credits @ \$100	0			
<b>Registraion Subtotal</b>	<b>\$ 473,100</b>	<b>\$ 473,100</b>	<b>\$ 463,540</b>	<b>\$ 9,560</b>
0 Deadbeat Payment @ \$500		0	0	0
Interest		6	200	(194)
Other (Hotel comps and commission)		57,651	55,000	2,651
<b>TOTAL Session Income</b>		<b>\$ 530,758</b>	<b>\$ 518,740</b>	<b>\$ 12,018</b>

Session Expenses	Est/Act	Budget	Deviation
Audio Visual	34,104	25,500	(8,604)
Audit	0	0	0
Bank Charges	95	350	255
Copying	3,608	3,500	(108)
Credit Card Discounts & Fees	13,143	16,555	3,412
Equipment Expenses	0	2,500	2,500
Get IEEE 802 Contrbution	83,400	80,850	(2,550)
Insurance	0	0	0
Meeting Administration	87,911	86,950	(961)
Misc Expenses	4,540 *	3,500	(1,040)
Networking	101,878	100,000	(1,878)
Other Expenses	5,600 !	5,600	0
Phone & Electrical	150	2,000	1,850
Refreshments	109,250	120,000	10,750
Shipping	8,326	15,000	6,674
Social	106,639	100,000	(6,639)
Supplies	550	800	250
<b>TOTAL Session Expense</b>	<b>559,195</b>	<b>563,105</b>	<b>3,910</b>

**NET Session Surplus/(Deficit)** **(28,437)** **(44,365)** 15,928

**Analysis**

Refreshments per registration	95	109	14
Social per registration	93	91	(2)
Meeting Admin per registration	77	79	2
Surplus/(Loss) per registration	(25)	(40)	16

\* Misc items: Hotel gratuities, meeting room rental,

! Online education software and hosting

<b>Cash recognized on hand as of Oct 14, 2009</b>	<b>\$ 1,147,184</b>	
<b>Reserve for unpaid expenses for prior sessions</b>	<b>\$ (1,000)</b>	bank fees, CC fees, etc
<b>Reserve for other outstanding commitments</b>	<b>\$ -</b>	
<b>Income received for current session (Nov 09)</b>	<b>\$ -</b>	
<b>Expenses prepaid for current session (Nov 09)</b>	<b>\$ 67,000</b>	
<b>Expenses prepaid for future sessions</b>	<b>\$ -</b>	
<b>Equipment Receivable Acct</b>	<b>\$ 37,331</b>	

<b>Operating Reserve</b>	<b>\$ 1,250,515</b>
--------------------------	---------------------

# Get IEEE 802® Update 25

For LMSC Plenary  
November 15-20, 2009  
Atlanta, GA

Karen Kenney,  
Associate Managing Director  
Business Administration

■ Program to date	4,829,199
■ Year to date 2009 (Jan 2008 – October 2009)	349,736
■ Weekly average 2009 (Jan 2009 – October 2009)	7,948
■ Most requested:	
– 802.11-2007™	
– 802.3-2005, 802.3-2008	
– 802.16, 16e	
– 802.1D, 1Q	
– 802.15.4, 15.4a	
– 802-2001	
– 802.2	
– 802.11k, 11r	

## Get IEEE 802® Update 25

# User Type (April 2003 – October 2009)

USER	Total
Academic/Student:	1,718,869
Attorney/Legal	11,822
Other:	733,921
Network equipment manufacturer:	480,381
Public network service provider:	293,577
Network Software Developer/Manufacturer	302,735
Systems Administrator:	207,490
Standards Developer:	157,615
Network silicon manufacturer:	103,472
Private network service provider:	130,510
Government:	120,143
Journalist/Analyst/Author	44,576
Curious Citizen	74
<b>Total</b>	<b>4,829,199*</b>

- Unknown 523,951 User stat data unavailable until April 2003

# Get IEEE 802® Update 25

## User Type (January 2009 - October 2009)

USER	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	YTD Total
Academic/Student:	14140	1486	19149	15301	13964	15640	12640	11938	17819	16548	138,625
Attorney/Legal	158	250	272	247	205	255	255	265	239	225	2,371
Curious Citizen											-
Government:	872	885	980	802	834	833	898	969	992	986	9,051
Journalist/Analyst/Author	232	371	292	273	225	238	261	312	260	314	2,778
Network equipment manufacturer:	3536	3721	4045	4217	3464	3736	4276	3923	4147	4149	39,214
Network silicon manufacturer:	756	780	809	775	721	1013	964	963	1021	929	8,731
Network Software Developer/Manufacturer	2489	2353	3036	2731	2201	2556	2638	2331	2530	2699	25,564
Other:	4894	5648	6259	5593	4910	5520	5457	5408	5756	5419	54,864
Private network service provider:	981	1122	1343	1034	962	1082	989	848	1105	1029	10,495
Public network service provider:	2219	2757	3444	2880	2610	2990	2415	2517	3453	2920	28,205
Standards Developer:	1386	1456	1612	1418	1518	1673	1513	1239	1454	1745	15,014
Systems Administrator:	1836	1249	1649	1577	1590	1307	1399	1347	1320	1550	14,824
<b>Total</b>	<b>33,499</b>	<b>22,078</b>	<b>42,890</b>	<b>36,848</b>	<b>33,204</b>	<b>36,843</b>	<b>33,705</b>	<b>32,060</b>	<b>40,096</b>	<b>38,513</b>	<b>349,736</b>

Get *IEEE 802*<sup>®</sup> Update 25

# Program Entries

## July 2009 – December 2009

### IEEE Std

### Added to Program

802.21 - 2008

26 Jul 2009

802.1ap - 2008

9 Mar 2009

802.15.4c - 2009

3 Nov 2009

802.15.4d - 2009

3 Nov 2009

802.15.5 - 2009

13 Nov 2009

Program additions are based on a 6-month wait period

## Approvals

### July 2009 – December 2009

<u>IEEE Standard</u>	<u>Published Date</u>
802.1Qaw - 2009	25 Jul 2009
802.1Qay - 2009	5 Aug 2009
802.1AB – 2009	17 Sep 2009
802.3av - 2009	30 Oct 2009
802.3at - 2009	30 Oct 2009
802.3bc - 2009	28 Sep 2009
802.11n - 2009	29 Oct 2009
802.11w -2009	30 Sep 2009
802.15.3c - 2009	12 Oct 2009
802.16 - 2009	29 Nov 2009
802.16j - 2009	12 Jun 2009
802.21 -2008	21 Jan 2010

7.04 II nNA update

Rigsbee

2

09:16 AM

Rigsbee discussed nNA sites. We are go for Singapore in 2011. Property is scheduled for soft opening January 2010 with grand opening March 2010. We are now also on schedule for Macao in March 2012 with Huawei as host.

Nikolich asked about the Geneva potential meeting.

Rigsbee said that we are waiting for an invitation for July 2013

7.05 II ECSG Emergency services report

Thompson

5

09:21 AM

Thompson presented ES-ECSG For EC 11-16-09.pdf

Thompson asked for time in the WGs opening plenary to present the status and purpose of the ES-ECSG



# Restricting Scope

We intend to confine the first project to:

Citizen – to – Authority (E911) communications

Focus on IP based “calls”

# Drafted proposed new Scope

## **Scope of Proposed Standard:**

- This standard will define a mechanism that supports the need for consistent data that is specifically required for citizen-to-authority emergency services packet data encoded session initiation request and support compliance within IEEE 802 to applicable civil authority requirements.
- A new MAC or PHY is outside the scope of this effort.

# Drafted proposed new Purpose

- The purpose of this standard is to support compliance to civil authority requirements complementary to IETF ECRIT specifications for citizen to authority emergency services functionality. This standard intends to encompass voice, data and multi-media requests across IEEE 802 using a new Layer 2 entity and associated behaviors and provide a uniform Structure of Management Information (SMI) for transferring required data for emergency services requests.

# Drafted/Revised other PAR text (1)

## **5.5 Need for the Project:**

VoIP emergency calls are less effective than those provided by traditional wireline and contemporary cellular networks.

Data encoded emergency calls across IEEE 802 technologies need to support regulatory requirements to assure successful completion of these calls to the correct Public Service Access Point (PSAP), and to do so utilizing the existing set of IEEE 802 PHYs and MACs.

# Drafted/Revised other PAR text (2)

## **5.6 Stakeholders for the Standard:**

Emergency Service authorities and government agencies (e.g. NENA, and the equivalent bodies in ROW); IETF; other telecom, cellular and emergency services standards development organizations (e.g. IETF, 3GPP, ETSI EMTEL). Within IEEE 802, the expected stake holders will be 802.1, 802.3, 802.11, 802.16, 802.20 and 802.22 as potential layer 2 alternatives and 802.21 for related handover development.

# Reworked 5 Criteria

- During the meeting we thought we were done.
- Reviewing afterward, I think we need to refine them some more.
- Therefore, I won't go through them here.
- The current state is posted on the Mentor web site as “Agenda ~~~0924~~.pdf”
- See last slide for URL

# Plans

## Next meetings

- Atlanta Plenary

We will meet mid-week.

(Major activity will be refining PAR & 5C and pitching project to the other WGs)

- January Interim

Will be co-located with 802.16 et al at La Jolla (San Diego), CA, Jan 11 – 14, 2010  
(Interim sponsor is IEEE 802)

- Get PAR approved no later than March.

# IEEE 802 Emergency Services EC Study Group

## EC REPORT

Geoff Thompson Chair, IEEE 802 Emer Serv ECSG  
<[thompson@ieee.org](mailto:thompson@ieee.org)>

Agenda, minutes, documents:  
[https://mentor.ieee.org/  
802-sg-emergency-services/documents](https://mentor.ieee.org/802-sg-emergency-services/documents)

THANK YOU



7.06 II Downloadable content format

Thompson

5

09:28 AM

Thompson discussed the email sent to the EC list regarding downloadable content format. This is to start discussion. The content should be on the WG server in a folder that is pointed to in the standard with a web address.

7.07 II TVWS Coexistence PAR and 802.19 Organization

Shellhammer

10

09:27 AM

Shellhammer presented 19-09-0089-00-tvws-par-presentation.ppt

Shellhammer indicated that in order to develop a PAR, 802.19 would need to convert from a TAG to a WG. The new WG would have a Task Group to do standards development and a standing committee.

Marks said that from the SA's point of view, a WG is supposed to have a PAR.

Chaplin (Samsung) asked if this will change the reciprocal credit rights.

Shellhammer said that there is no intention to change reciprocal credit rights.

# PAR Presentation

Date: 2009-11-10

## Authors:

Name	Company	Address	Phone	email
Mark Cummings, Ph. D.	SWIM	348 Camino al Lago Atherton, Ca 94027	+1650 854 4406	<a href="mailto:markcumings@envia.com">markcumings@envia.com</a>
Ari Ahtiainen	Nokia	P.O. Box 407, FI- 00045 Nokia Group, Itamerenkatu 11-13 00180, Helsinki, Finland	+358 (0)7180 36426	<a href="mailto:ari.p.ahtianen@nokia.com">ari.p.ahtianen@nokia.com</a>
Mika Kasslin	Nokia	P.O. Box 407, FI- 00045 Nokia Group, Itamerenkatu 11-13 00180, Helsinki, Finland	+358 (0)7180 36294	<a href="mailto:mika.kasslin@nokia.com">mika.kasslin@nokia.com</a>
Steve Shellhammer	Qualcomm	5775 Morehouse Dr. San Diego, CA 92121	+1 858 658- 1874	<a href="mailto:shellhammer@ieee.org">shellhammer@ieee.org</a>

**Notice:** This document has been prepared to assist IEEE 802.19. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

# Abstract

**This is a work in process draft of the presentation supporting the 802.19 TVWS Coexistence PAR at the 802 EC Meeting in November 2009.**

# TV White Space Opportunity

- **Regulators Are Opening Up New Spectrum By Allowing Special Access To Unused TV Channels**
  - The US FCC Makes This Available Unlicensed
  - Other Regulators Have Proposed Combinations of Licensed and Unlicensed
  - Additional Spectrum Is Welcomed By 802
- **The Spectrum Is Available to Support All 802 Wireless Standards**
  - 802.22 and 802.11 are Working To Develop Standards To Address:
    - Regulatory Requirements
    - Perceived Use & Business Cases
  - Other 802 Groups May Follow
- **Regulators Specify Means of Protecting “Incumbents” such as:**
  - Broadcasters
  - Wireless Microphones
  - CATV Headends

# Coexistence Problem

- **Regulators Allow All Users/Standards to Enter White Space**
- **If Different Users Employing Different 802 Standards Enter the Same Channel in the Same Location They Will Interfere With Each Other**
  - For Example CSMA/CA & TDMA
- **Regulators Are Leaving Coexistence Problem to Industry**
  - Speed Deployment
  - Maximize Innovation Over Time
- **802 Solution**
  - Initiate Standard Development Effort For Coexistence Mechanisms That Will Provide a Good User Experience For all 802 Standards Users in TV White Space
  - Make the 802 Coexistence Mechanisms Available to non-802 Wireless Standards Groups

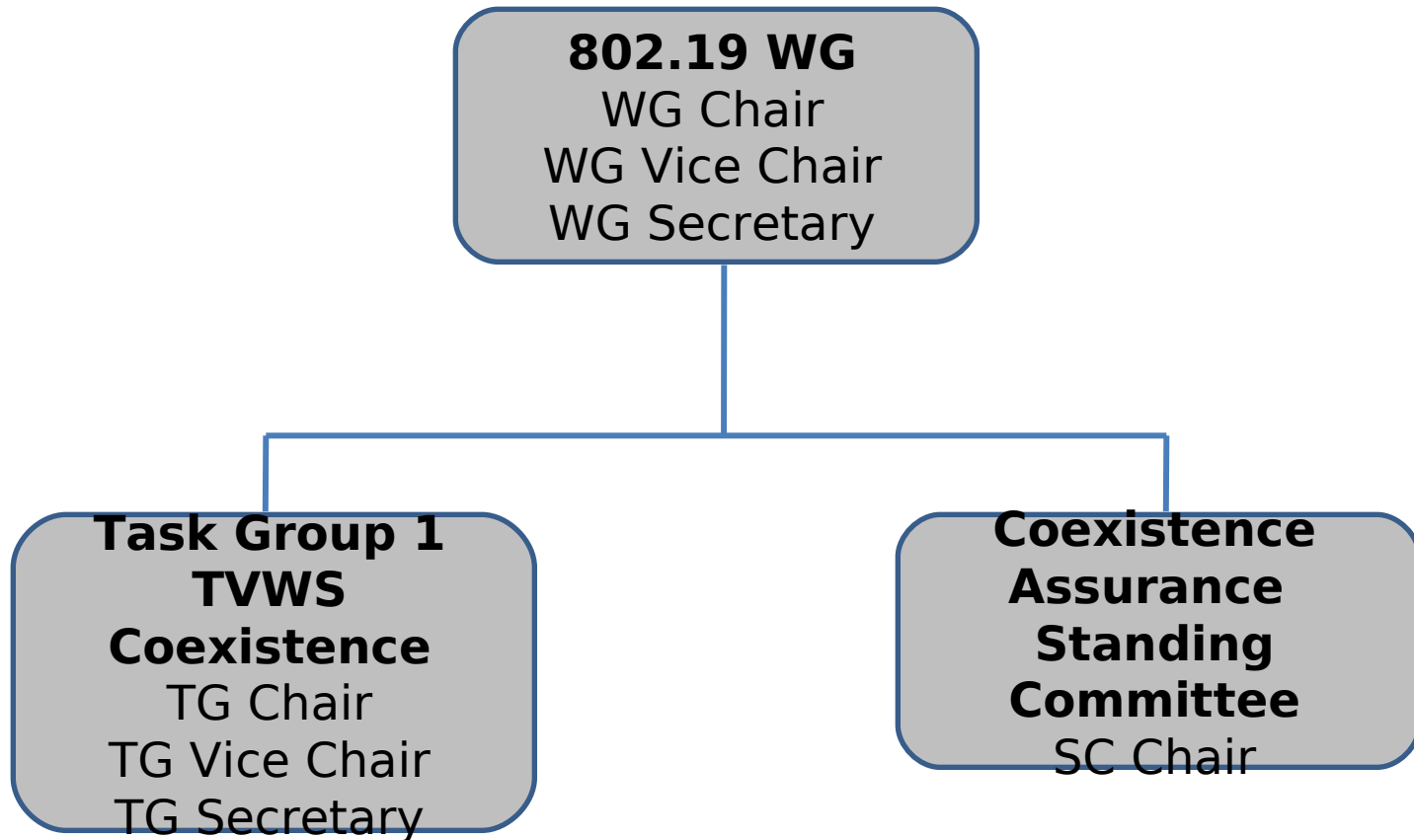
# Coexistence Standard Intent

- **802 Standards Groups Such As 802.11, 802.22, etc.**
  - Develop Standards For TV White Space that Address:
    - Regulatory Requirements
    - Anticipated Use Cases
    - Anticipated Business Cases
- **TV White Space Coexistence Task Group Develops Coexistence Mechanisms That**
  - Enhance coexistence between different TVWS networks when limited spectrum is available
  - Are beneficial to those devices, which also implement TVWS MAC/PHY standards (not mandated)

# Industry Support

- **This PAR Is the Result Of a Long Process That Has Been Supported By a Broad Cross Section of the 802 Community**
  - TV White Space EC Study Group
    - 100 + Foil Presentation
  - 802.19 TV White Space Coexistence Study Group
    - Coexistence Use Cases & Scenarios
  - 802.19 TV White Space Coexistence Study Group Extension & Authorization to Write PAR
- **There Has Been Strong Support For the Coexistence Study Group**
  - Attendance On the Telecons: 78 Attendees from 48 Companies
  - Attendance at SF Plenary: 44 Attendees from 35 Companies
- **There Has Been Strong Support For the Development of the PAR**
  - Over 30 Active Participants In PAR Finalization in Hawaii
    - All Major Roles in Value Chain
    - North America, Asia & Europe
  - Larger Numbers of Active Participants Are Expected Once PAR Is Approved

# IEEE 802.19 WG Organization





# WG Organization

- **The 802.19 WG will hold its first meeting in January**
  - Standards Board vote in December
- **The initial WG membership will be the union of the following two groups**
  - The current 802.19 members
  - All those people who attend at least 75% of the first WG session as per the 802 Operations Manual Section 3.2.2.1
- **Details of the Timeline of the conversion to a WG are provided in the backup slides**

# Leadership

- **There Are Qualified & Capable Individuals Prepared To Run For the Task Group Leadership Positions**

# Relationship To Other Standards Efforts

- The Following Standards Projects May Prove Somewhat Helpful
  - P1900.4a
  - TC48-TG1
  - None of These Standards Provide The Full Solution To the IEEE 802 Coexistence Problem
- **Other Groups Inside 802 Are Working On or Preparing To Work On TV White Space Standards**
  - 802.22
  - 802.11
  - 802.15 & 802.16 May Also at a Future Date
  - For Fundamental Structural Reasons These Efforts Can Not Provide The Full Solution To the IEEE 802 Coexistence Problem

# **Back Up Material**

# September Wireless Interim Attendance

Last Name	First	Email	Affiliation	Employer
Ahtiainen	Ari	ari.p.ahtiainen@nokia.com	Nokia	Nokia
Baykas	Tuncer	tbaykas@gmail.com	NICT - National Institute of Information and Communications Technology	NICT - National Institute of Information and Communications Technology
Cummings	Mark	markcummings@envia.com	SWIM	enVia
Durand	Roger	rdurand18@comcast.net	Research In Motion Limited	Research In Motion Limited
Gloger	Reinhard	reinhard.gloger@nsn.com	Nokia Siemens Networks	Nokia Siemens Networks
Goldhamer	Mariana	mariana.goldhamer@alvario	Alvarion	Alvarion
Golmie	Nada	golmie@nist.gov	NIST - National Institute of Standards and Technology	NIST - National Institute of Standards and Technology
Gurley	Thomas	tgurley@ieee.org	IEEE BTS	IEEE BTS
Hillman	Garth	garth.hillman@sbcglobal.net	OakTree Wireless	Advanced Micro Devices -
Hou	Victor	vhou100@aol.com	Broadcom Corporation	Broadcom Corporation
Kang	Hyunduk	henry@etri.re.kr	ETRI - Electronics and Telecommunications Research Institute	
Kasslin	Mika	mika.kasslin@nokia.com	Nokia	Nokia
Kim	Chang	cjkim@etri.re.kr	ETRI - Electronics and Telecommunications Research Institute	
Kimyaciogl	Mehmet	kkimyacioglu@gmail.com	IK Cognitive Wireless	
Kwak	Joseph	joekwak@sbcglobal.net	InterDigital Communications,	Kwak & Associates
Lambert	Paul	paul@marvell.com	marvell	Marvell
Moorti	Rajendra	rtm@broadcom.com	Broadcom Corporation	Broadcom Corporation
Ngo	Chiu	chiu.ngo@ieee.org	Samsung Electronics	Samsung Electronics
Reede	Ivan	i_reede@amerisys.com	AmeriSys Inc.	AmeriSys Inc.
Reznik	Alex	alexr.at.ieee@gmail.com	InterDigital, Inc.	InterDigital, Inc.
Shellhamm	Stephen	shellhammer@ieee.org	Qualcomm Incorporated	Qualcomm Incorporated
Tawil	Victor	vtawil@mstv.org	WG802.22	
Um	Jungsun	korses@etri.re.kr	ETRI	
Varshney	Prabodh	prabodh.varshney@nokia.co	Nokia	Nokia
Yu	I-Hsiang	james.yu@neustar.biz	Neustar	
Zeng	Yonghong	yhzen@g	Institute for Infocomm Research	Institute for Infocomm Research

# IEEE 802.19 WG Timeline

## November Friday EC Meeting

- EC votes to approve PAR and converting 802.19 from a TAG to a WG

## December Standards Board Meeting

- Standard Board Approves PAR

## January Interim Session

- At beginning of January Session 802.19 becomes a WG
- Current 802.19 leadership stays the same as original TAG leadership
- WG chair acts as TG1 chair for this session
- Nominations for WG, Task Group 1 (TG1) and standing committee (SC) officers open
- WG meets for the week
- After the session those who have attended at least 75% of the meetings are added to the original 802.19 voting membership to form new voting membership

## March Plenary Session

- Close nominations for WG and Task Group 1 (TG1) and standing committee (SC) officers
- Elections for WG (since March of even year), TG1 and SC officers
- At Friday EC meeting WG officers confirmed by EC

Nikolich presented a review of the EC workshop action items

Nikolich asked for an email to update the status of the action items from the responsible person.

# EC Workshop Action Items

- 802 Architecture (7 Nikolich/Jeffree/EC)
- Disparities in WG practice for common problems (4 Rosdahl/Law/Nikolich/EC)
- Succession Training (12 Gilb/Kraemer/Nikolich/Law/Grow/EC)
- Leverage (5 Marks/Nikolich/Jeffree/Gilb/Law/Hawkins)
- Distribution of Standards and Drafts (1 EC)
- Downloadable and Machine Readable Content (2 Thompson/Law)
- Process Changes (11 Gilb/Rosdahl/Thaler/Kraemer/Law/Marks/EC)
- Inter-group complaints/relationships (2 Nikolich/Marks)
- 30<sup>th</sup> Anniversary Celebration (5 Rigsbee/Thomson/Kraemer/Marks/Gilb)
- Scope of 802.21 (2 Gupta/Jeffree)
- Domination and other distortions to the consensus process (1 Thaler/Nikolich)



# EC Workshop follow up

- IEEE Shop single copy sales for 802 documents from JAN09-OCT09: 312 units
- Top sellers:
  - draft 802.3at (11 units),
  - draft 802.3ba (12 units),
  - draft 802.11n (64 units),
  - draft 802.11s (10 units) and
  - Standard 802.16-2009 (10 units)
- Note: doesn't include single copy sales from IHS or Techstreet

7.09 ME IMT advanced update Lynch 5 09:48 AM

Lynch had to leave the room and requested that Marks give the update.

Marks summarized the status of IMT advanced. IEEE submitted a proposal that was discussed in the September ITU-R meeting. The feedback was that it was a complete proposal and is now being reviewed by independent evaluation groups. The results should be finished by the middle of 2009. The independent groups have been invited to a one day meeting, January 13, 2010 in San Diego, co-located with the 802.16 interim meeting.

7.10 II P&P review Sherman 10 09:57 AM

Nikolich took item 7.13 out of order.

7.13 MI IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet press release Law 5 10:00 AM

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 EC voting to unconditionally forward the IEEE P802.3ba draft to Sponsor Group ballot with editorial changes permitted to the draft press release as deemed necessary.

Moved by Law, seconded by Jeffree

Kraemer indicated that he had editorial comments, but they are not yet ready.

Law will circulate the draft after any editorial changes.

Marks noted that the word "draft" should be in the paragraph with the name of the draft.

Vote is 13/0/0. Motion passes.

Nikolich takes up item 7.14

# 40 Gb/s and 100 Gb/s Ethernet Standard Project Goes to Sponsor Ballot

## Approval of Related ITU-T Standard Also Pending

Contact:

Karen McCabe, IEEE-SA Marketing Director  
+1 732-562-3824, [k.mccabe@ieee.org](mailto:k.mccabe@ieee.org)

**PISCATAWAY, N.J., USA**, xx November 2009 -- The development of faster Ethernet communication standards through the IEEE Standards Association reached another major milestone this month when the IEEE 802 Executive Committee approved forwarding the draft of the next higher speed Ethernet standard for Sponsor balloting, the final of two stages of balloting.

The sponsor balloting phase will commence in November. "Once the Sponsor ballot has been completed, the standard will be submitted for approval by the IEEE-SA Standards Board as an IEEE standard," says John D'Ambrosia, Chair of the IEEE P802.3ba Task Force.

IEEE P802.3ba™ is 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 aims to extend the existing IEEE 802.3™ Ethernet protocol to operating speeds of 40 Gb/s and 100 Gb/s in order to provide a significant increase in bandwidth while maintaining maximum compatibility with the installed base of IEEE 802.3 interfaces, previous investment in research and development, and principles of network operation and management. The project is to provide for the interconnection of equipment satisfying the distance requirements of the intended applications.

In addition, a related standard, the International Telecommunication Union's Telecommunication Standardization Sector (ITU-T) Recommendation G.709, "Interfaces for the optical transport network (OTN)," is being revised to support transport of 40 Gb/s and 100 Gb/s Ethernet over the OTN and is on track for approval by the end of 2009. "IEEE and ITU-T have formed a liaison relationship in the development of these standards, which is helping to speed the development of both standards," says David Law, Chair of the IEEE 802.3 Working Group.

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>.

## **About IEEE**

IEEE (Institute of Electrical and Electronics Engineers, Inc.), the world's largest technical professional society, is commemorating its 125th anniversary in 2009 by "Celebrating 125 Years of Engineering the Future" around the globe. Through its more than 375,000 members in 160 countries, IEEE is a leading authority on a wide variety of areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics. Dedicated to the advancement of technology, IEEE publishes 30 percent of the world's literature in the electrical and electronics engineering and computer science fields, and has developed nearly 900 active industry standards. The organization annually sponsors more than 850 conferences worldwide. Additional information about IEEE can be found at <http://www.ieee.org>.

# # #

7.14 II Notice of Study Groups under consideration/status of existing SGs WG chairs 5 10:05 AM

802.1 - none

802.3 - 40 Gb/s single mode fiber PMD, Time Sync Protocol Support SG (extension)

802.11 - TV Whitespace SG, QoS MAN

802.15 - none

802.16 - none

802.17 - none

802.18 - none

802.19 - TV Whitespace (extension)

802.20 - none

802.21 - Wireless backhaul (potential)

802.22 - none

Nikolich takes up item 7.15

7.15 II 802.16.2 reaffirmation Marks 1 10:08 AM

Marks indicates that he will be starting the reaffirmation process and individuals are invited to join the pool.

Nikolich takes up 7.10 again

Sherman presents VC1\_16112009\_r0\_EC\_P&P\_Update - opening.ppt

# EC Update on LMSC Governance

## **Author:**

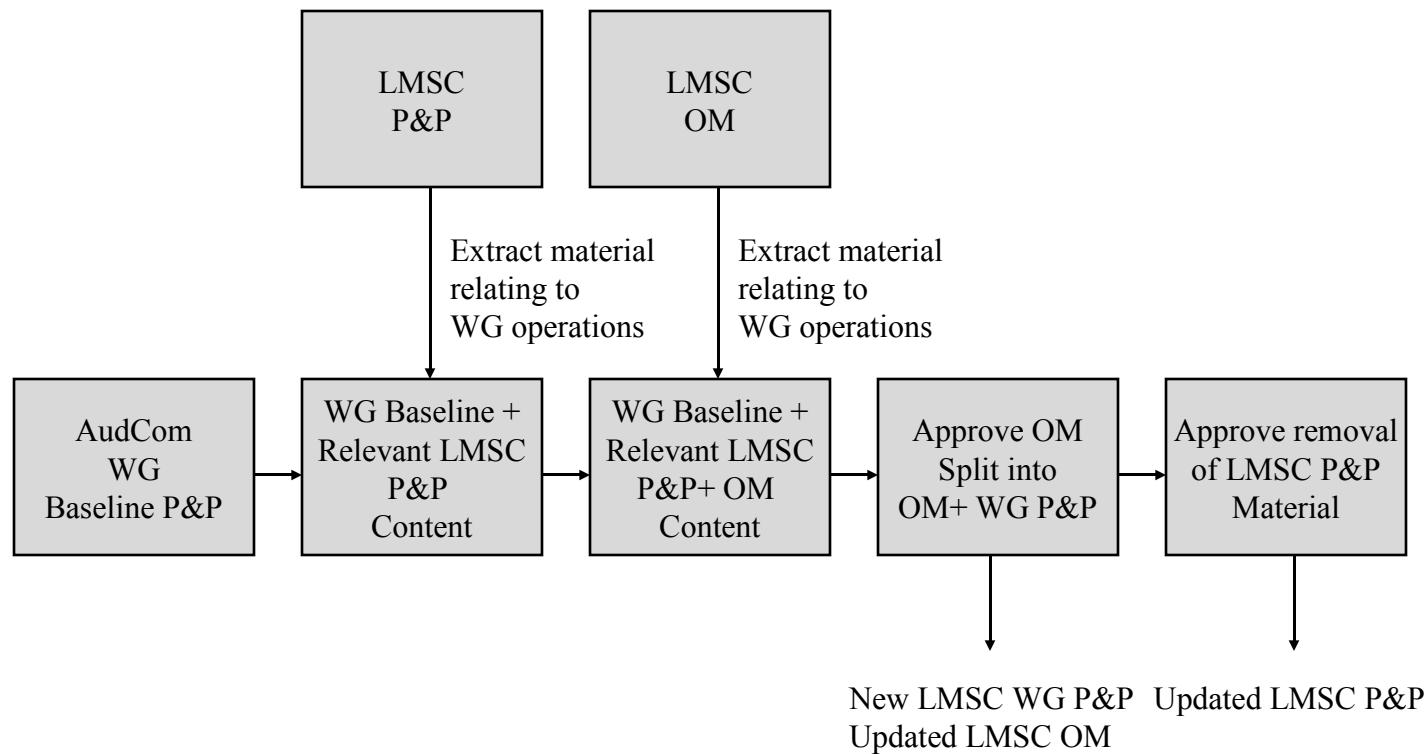
Matthew Sherman  
1<sup>st</sup> Vice Chair, IEEE 802  
BAE Systems - ES  
Matthew.Sherman@BAESystems.com

**Date:** November 16<sup>th</sup>, 2009

# LMSC Governance Status

- Current IEEE 802 Sponsor (LMSC) P&P and OM can be found at
  - <http://standards.ieee.org/board/aud/LMSC.pdf>
  - [http://grouper.ieee.org/groups/802/PNP/2008-11/LMSC\\_OM\\_approved\\_081114.pdf](http://grouper.ieee.org/groups/802/PNP/2008-11/LMSC_OM_approved_081114.pdf)
- AudCom is requiring Working Group (WG) P&P
  - Requirement effective March 31, 2009
  - Checks starting March 2010
- LMSC focus is to have an LMSC WG P&P in force by March 2010
  - applicable to all LMSC WG
  - WG can supplement LMSC WG P&P with WG OM
- Current process will produce LMSC WG P&P by November 2009
  - March 2010 is fall back if we miss November 2009
- Latest drafts will be posted to EC Doc server today as (latest rev)
  - ec-09-0005-00-00EC Draft revision of LMSC PandP
  - ec-09-0006-00-00EC Draft revision of LMSC OM
  - ec-09-0007-00-00EC Draft LMSC WG PandP

# WG P&P Development Process





# WG P&P Development –Key Dates

- ✓ 7/11/2009 18:00 PM PDT 4.0 hours In Person
- ✓ **7/17/2009 13:00 PM PDT Closing EC Vote to initiate OM Rev**
- ✓ 7/17/2009 14:30 PM PDT 2.5 hours In Person
- ✓ 8/21/2009 12:00 PM ET 2.0 hours Teleconference
- ✓ 9/18/2009 12:00 PM ET 2.0 hours Teleconference
- ✓ 10/16/2009 12:00 PM ET 2.0 hours Teleconference
- ✓ 11/13/2009 12:00 PM ET 2.0 hours Teleconference
- ✓ 11/15/2009 18:00 PM ET 4.0 hours In Person
- **11/20/2009 13:00 PM ET Closing EC Vote to approve OM Rev**
- **11/20/2009 13:00 PM ET Closing EC Vote to approve P&P Rev**

# Current Documents

- Current draft LMSC P&P is as posted for original ballot
  - Will be posted to EC Doc server today
- Current draft LMSC OM is posted on EC Doc server as ec-09-0002-01-00EC (DCN 2 Rev 1)
  - Will be amended today based on P&P Review last night
- Current draft LMSC WG P&P is as posted for original ballot
  - Will be amended based on P&P Review last night and posted to EC Doc server

# Issues

- Productive P&P Review session last night
  - Minutes will be published today
- Need to update documents for latest consensus
  - Will be posted today
- One area of disagreement is reinstatement of certain EC voting rules in LMSC OM
  - “Approval of PARs and DRAFTS for forwarding to IEEE SA shall require approval by a majority of EC Members present with voting rights.”
- At closing EC meeting will stawpoll who would vote against the motion if this is added
  - If it will pass, will entertain an amendment to motion adding this to LMSC OM

# Sunday P&P Review Meeting

- Ran about 3.5 hour
- discussed WG P&P development with focus on
  - The role of TAGs in IEEE 802
  - Approach to WG voting rules
- Based on straw polls ballot documents will be edited to
  - Clarify that TAG are a special form of a Standing Committee using WG rules but allowed to be assigned a PAR
  - Update WG voting rules to reflect current LMSC voting practices in an AudCom format
  - Reduce chairs constraints on procedural votes concerning RRoO
  - Set approval threshold to change WG OM's to 75%
- IEEE SASB Chair will provide inputs for incorporation regarding WG member roster / list requirements

7.11 II 30th anniversary shirts Rigsbee 5 10:11 AM

Rigsbee discussed the 30<sup>th</sup> anniversary shirts. Samples were supposed to arrive today. If they arrive in time, they will be shown at the opening plenary. Cost for shirts would be \$11,000-\$12,000. An alternative would be permanent badge holder, they would be \$1.00-\$1.75 in quantity 1000.

Thompson asked the price of the existing plasti badge holders, Rigsbee said they were about \$0.30 each.

Marks asked if they priced the hackey-sack option, Rigsbee said no.

Jeffree suggested anniversary pins

Nikolich scheduled a meeting on this, Thursday, 10 am - 11 am

7.12 II Changes to registration and hotel deadlines Rigsbee 5 10:15 AM

Rigsbee discussed the suggested changes that was sent to the EC reflector.

Nikolich schedule a meeting for this, Wednesday, 4-5 pm

Law suggested a different fee if the attendee does not stay at the hotel. WGs should include this in their discussion.

Rigsbee will add this prior to circulation.

Nikolich proposed a new agenda item, 7.16 Ombudsman report

Nikolich asked if there were any objections to adding the new item. No objections were heard. Nikolich introduced Susan Tatiner to give the ombudsman report.

Tatiner indicated that they received a complaint from an individual who had a complaint and was suggesting a lawsuit.

Tatiner facilitated discussion with the individual, but was unable to resolve the issue. The individual was put in contact with IEEE legal department about 6 weeks ago. There is no further update.

7.30 II EC meeting schedule (rules, SA, etc.) Nikolich 3 10:20 AM

Nikolich presented the EC meeting schedule for the week.

Rigsbee asked about the standards board co-locating with 802 in March (30<sup>th</sup> anniversary).

Tatiner indicated that the BoG is currently scheduled to meet in Piscataway.

Grow indicated that they are working on having the BoG meeting with 802 in Singapore.

Nikolich presented a slide on single copy sales of 802 standards. Sales are low out of the IEEE shop.

Thaler suggested that we should recognize some of the revenue from Xplore for downloaded standards.

30<sup>th</sup> anniversary shirts arrived and were displayed.

# EC meetings for the week

(held in Heritage Boardroom)

- Monday 8-noon open
- Monday noon-6pm open
  
- Tuesday 9-11am reserved (Nikolich)
- Tuesday 11am-1pm open
- Tuesday 1-3pm open
- Tuesday 3-5pm open
- Tuesday 5-7pm open
- Tuesday 7-9pm open
  
- Wed 1:00-2:00pm Attendance tool discussion (Gilb)
- Wed 2:00-4pm 802 Task Force (Nikolich)
- Wed 4-5pm modification to registration and hotel deadlines (Rigsbee)
- Wed 5-6pm open
  
- Thursday 10-11am 30<sup>th</sup> anniversary planning (Rigsbee)
- Thursday noon-1pm open
- Thursday 1-2pm open
- Thursday 2-5pm open

7.33	DT	ADJOURN SEC MEETING	Nikolich	10:32 AM
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Meeting adjourned at 10:32 am..

8.00	PL	IEEE 802 PLENARY MEETING STARTS	Nikolich	60	11:00 AM
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Nikolich called the meeting order at 11 am local time.

Nikolich presented the agenda for the opening plenary.



Standards Project Authorization

1. <u>August 25, 1979</u> Date of Request	Project No. <u>802</u> Approved: <u>3/13/80</u> Date
For Standards Committee Use Only	
2. <input checked="" type="checkbox"/> New Standard <input type="checkbox"/> Revision of _____ Standard No. _____	<input type="checkbox"/> Reaffirmation of _____ <input type="checkbox"/> Withdrawal of _____ Standard No. _____
3. Project Title: <u>Local network for Computer Interconnection.</u>	
4. Scope and Purpose of Proposed Standard: <u>The proposed standard will apply to Data Processing devices which need to communicate with each other at a moderate data rate (1 M bit/sec) and within a local area (physical data path up to 4 km). The purpose of the proposed standard is to provide compatibility between devices of different manufacture so that the hardware and software customization necessary for effective data communication is minimized or eliminated.</u>	
5. Sponsor <u>Computer Standards</u> Technical Committee	<u>Computer Society</u> Society
5a. Proposed ANSI Committee <u>X3</u>	ANSI Project #: _____ Date Approved: _____
6. Proposed Coordination: Dr. Herbert Hecht Computer Society Representative to X3. Also coordination with IEC Committees will be undertaken. Minutes will be mailed to ANSI x 3 Secretary.	
Method of Coordination: <u>Communications Society</u> <u>Computer Sids. Committee (added by amendment 9/17/81 StB meeting)</u>	
7. Name of Group that will Write the Standard <u>Microprocessor Standards</u> Subcommittee <u>Local Network</u> Working Group	
8. Estimated Final Ballot Date <u>December 1982</u> To Technical Committee <u>March 1983</u> To Standards Board	
9. Person Delegated to Receive Communications and Conduct Liaison with Interested Bodies: Name: <u>Maris Graube</u> Company: <u>Tektronix, Inc.</u> Street address: <u>P. O. Box 500, N/S 5B-188</u> <u>Beaverton, OR 97077 (503) 644-0161 Ext. 6234</u> City State Zip Code Telephone	
10. Submitted by: Name: <u>Dr. Robert G. Stewart</u> Company: <u>Stewart Research Enterprises</u> <u>1650 Belvoir Drive</u> <u>Los Altos, CA 94022 (415) 941-6699</u> City State Zip Code Telephone	

NOV 2009  
IEEE 802  
LMSC

Opening EC Meeting  
8 AM-10:30AM



# 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, etc.-Rigsbee) - 20 minutes
  - Q&A on above topics - 10 minutes
- Emergency Services ECSG update + Q&A (Thompson) - 10 minutes
- Closing remarks, notices, adjourn - 5 minutes

The EC members introduced themselves.

Nikolich presented the IEEE Standards organization structure.

# IEEE 802 ORGANIZATION

## EXECUTIVE COMMITTEE (EC)

**CHAIR**  
Paul Nikolich

### WORKING GROUP/TAG CHAIRS

### APPOINTED OFFICERS

<b>802.1</b> <b>BRIDGING/ARCH</b> Tony Jeffree	<b>802.3</b> <b>CSMA/CD</b> David Law	<b>802.11</b> <b>WLAN</b> Bruce Kraemer	<b>802.18 TAG</b> <b>Radio Regulatory</b> Mike Lynch	<b>1<sup>st</sup> VICE CHAIR</b> Mat Sherman	<b>2<sup>nd</sup> VICE CHAIR</b> Pat Thaler
<b>802.15</b> <b>WPAN</b> Bob Heile	<b>802.16</b> <b>BWA</b> Roger Marks	<b>802.17</b> <b>ResPackRing</b> John Lemon	<b>802.19 TAG</b> <b>Coexistence</b> Shellhammer	<b>EXECUTIVE</b> <b>SECY</b> Buzz Rigsbee	<b>RECORDING</b> <b>SECY</b> James Gilb
<b>802.20</b> <b>MBWA</b> Mark Klerer	<b>802.21</b> <b>Handoff</b> Vivek Gupta	<b>802.22</b> <b>WRAN</b> Wendong Hu		<b>TREASURER</b> John Hawkins	<b>MEMBER</b> <b>EMERITUS</b> Geoff Thompson

### HIBERNATION

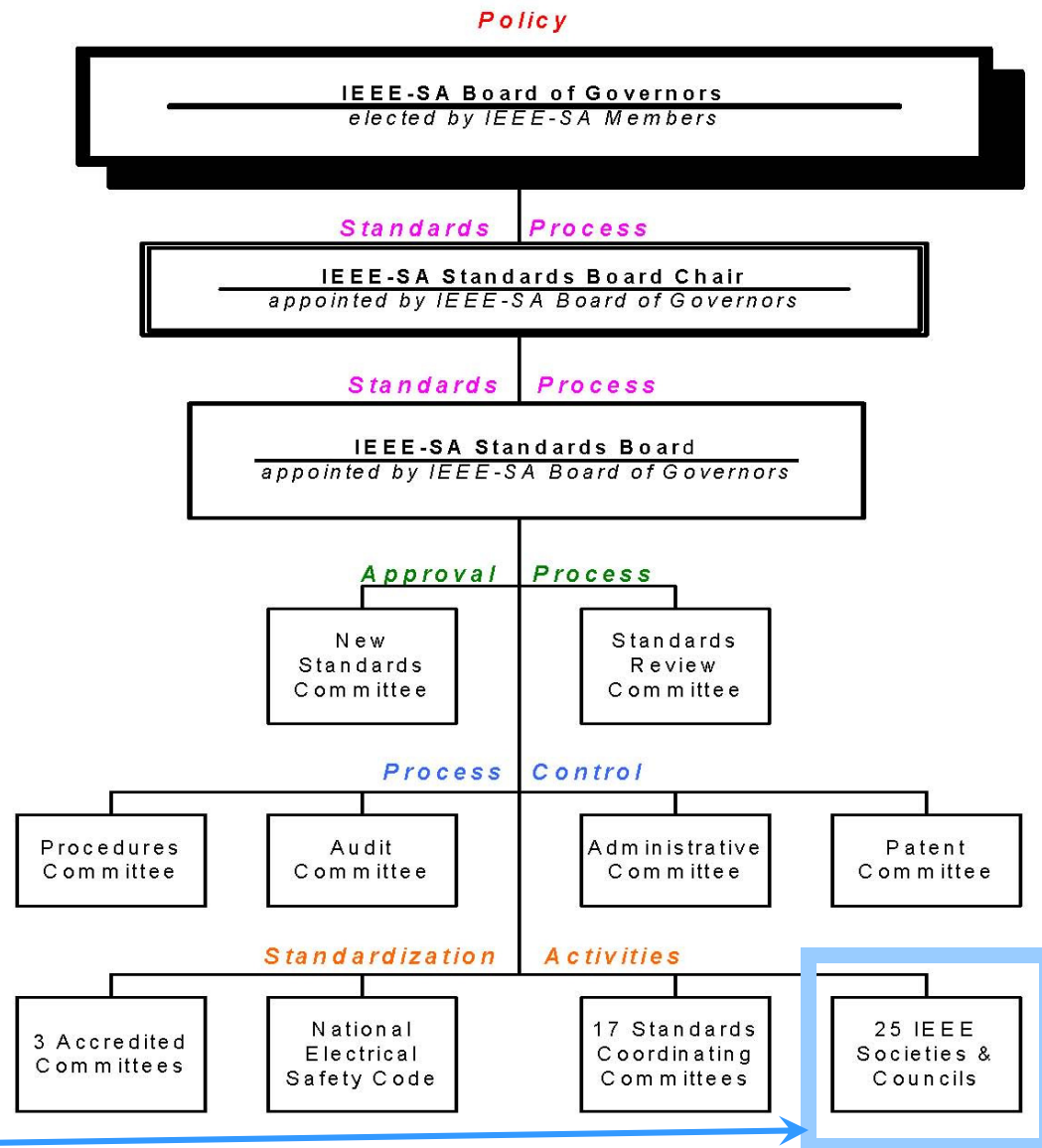
802.2 LLC (Dave Carlson)  
802.12 Demand Priority (Pat Thaler)

### DISBANDED

802.4 Token Bus  
802.7 Broadband TAG  
802.9 ISLAN  
802.14 CATV  
802.6 DQDB  
802.8 Fiber Optic TAG  
802.10 Security  
802.5 Token Ring

**Emerg Svcs**  
**ECSG**  
**Geoff**  
**Thompson**

# IEEE Standards Organization



IEEE 802 is here:

Nikolich presented the IEEE staff present at the meeting.

Nikolich did not have a current list of the awards for this plenary.

# 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. Susan Tatiner:            Associate Managing Director Technical Program  
Development and 802 Ombudsman
5. Moira Patterson:        Senior Administrator, IEEE-SA Governance &  
International Programs IEEE Standards Activities.
6. Alphesh Shah:            Strategic Business Development Manager

Thompson presented the patent policy.

# 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**



# 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.

Nikolich noted that the opening reports of the WGs are available on the IEEE 802 web page.

Rigsbee presented the treasurers opening report. [treasopeningreportnov09.pdf](#)

**IEEE Project 802**  
**Statement of Operations**  
**Jul 2009 Plenary Session**  
**San Francisco, CA**  
**As of Nov 14, 2009**

**Draft**

Session Income	dB	Est/Act	Budget	Deviation
<b>Net Registrations</b>		1,148	1,100	48
77.9% 894 Early Registrations @ \$400	\$ 357,600			
20 Cancellations @ \$350	(7,000)			
9 Early cancellations @ \$400	(3,600)			
0 Visa cancellations @ \$400	0			
22.1% 254 Registrations @ \$500	127,000			
0 Cancellation @ \$500	0			
2 Cancellation @ \$450	(900)			
0.0% 0 Student @ \$150	0			
0 Other credits @ \$100	0			
<b>Registraion Subtotal</b>	<b>\$ 473,100</b>	<b>\$ 473,100</b>	<b>\$ 463,540</b>	<b>\$ 9,560</b>
0 Deadbeat Payment @ \$500		0	0	0
Interest		6	200	(194)
Other (Hotel comps and commission)		57,651	55,000	2,651
<b>TOTAL Session Income</b>		<b>\$ 530,758</b>	<b>\$ 518,740</b>	<b>\$ 12,018</b>

Session Expenses	Est/Act	Budget	Deviation
Audio Visual	34,104	25,500	(8,604)
Audit	0	0	0
Bank Charges	95	350	255
Copying	3,608	3,500	(108)
Credit Card Discounts & Fees	13,143	16,555	3,412
Equipment Expenses	0	2,500	2,500
Get IEEE 802 Contrbution	83,400	80,850	(2,550)
Insurance	0	0	0
Meeting Administration	87,911	86,950	(961)
Misc Expenses	4,540 *	3,500	(1,040)
Networking	101,878	100,000	(1,878)
Other Expenses	5,600 !	5,600	0
Phone & Electrical	150	2,000	1,850
Refreshments	109,250	120,000	10,750
Shipping	8,326	15,000	6,674
Social	106,639	100,000	(6,639)
Supplies	550	800	250
<b>TOTAL Session Expense</b>	<b>559,195</b>	<b>563,105</b>	<b>3,910</b>

**NET Session Surplus/(Deficit)** **(28,437)** **(44,365)** 15,928

**Analysis**

Refreshments per registration	95	109	14
Social per registration	93	91	(2)
Meeting Admin per registration	77	79	2
Surplus/(Loss) per registration	(25)	(40)	16

\* Misc items: Hotel gratuities, meeting room rental,

! Online education software and hosting

<b>Cash recognized on hand as of Oct 14, 2009</b>	<b>\$ 1,147,184</b>	
<b>Reserve for unpaid expenses for prior sessions</b>	<b>\$ (1,000)</b>	bank fees, CC fees, etc
<b>Reserve for other outstanding commitments</b>	<b>\$ -</b>	
<b>Income received for current session (Nov 09)</b>	<b>\$ -</b>	
<b>Expenses prepaid for current session (Nov 09)</b>	<b>\$ 67,000</b>	
<b>Expenses prepaid for future sessions</b>	<b>\$ -</b>	
<b>Equipment Receivable Acct</b>	<b>\$ 37,331</b>	

<b>Operating Reserve</b>	<b>\$ 1,250,515</b>
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Sherman presented an update on the P&P, VC1\_16112009\_r0\_LMSC\_Plenary\_Meeting\_P&P\_Update.ppt

# LMSC Governance Update

## **Author:**

Matthew Sherman  
1<sup>st</sup> Vice Chair, IEEE 802  
BAE Systems - NS  
Matthew.Sherman@BAESystems.com

**Date:** November 16<sup>th</sup>, 2009

# What is LMSC Governance?

- LMSC governance are the ‘rules’ that govern the IEEE 802 LMSC
- LMSC Governance consists of
  - LMSC Policies and Procedures (LMSC P&P)
  - LMSC Operation Manual (LMSC OM)
  - LMSC Working Group (WG) P&P
    - Under development!
- WG also have P&P
  - The IEEE Standards Association Standards Board Audit Committee (AudCom) is requiring all WG to have P&P
  - To simplify things for LMSC WG we are developing a single WG P&P applicable to all LMSC WG
  - For rules specific to a single WG, creation of a WG OM is being encouraged
- 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 Governance Activities

- New IEEE 802 Sponsor (LMSC) Policies and Procedures (P&P) and Operations Manual (OM) approved as of March 19, 2009!
- Current IEEE 802 Sponsor (LMSC) P&P can be found at
  - <http://standards.ieee.org/board/aud/LMSC.pdf>
- Current LMSC OM can be found at
  - [http://grouper.ieee.org/groups/802/PNP/2008-11/LMSC\\_OM\\_approved\\_081114.pdf](http://grouper.ieee.org/groups/802/PNP/2008-11/LMSC_OM_approved_081114.pdf)
- Many improvements in OM are desired but...
- AudCom introduced requirement for Working Group (WG) P&P
  - Requirement effective March 31, 2009
  - AudCom will start WG P&P spot checks in March 2010
- LMSC focus is to have an LMSC WG P&P in force by March 2010
  - applicable to all LMSC WG
  - WG can supplement LMSC
- Kicked off WG P&P process last March
  - Held a series of conference calls, and in-person WG P&P meeting
- Latest Draft revisions of resulting documents will be posted this evening at
  - <https://mentor.ieee.org/802-ec/documents>
  - Document Control Numbers (DCN) 5-7, latest revision

# Questions?

- Contact Matthew Sherman
  - [matthew.sherman@baesystems.com](mailto:matthew.sherman@baesystems.com)



Nikolich presented the tutorial schedule and had the sponsors give a short summary of the tutorial.

# Tutorial Slot Schedule

<b>Monday</b>	<b>Tuesday</b>
<b>1) Call For Interest: 40Gb/s Ethernet single-mode</b> 6:00-7:30PM      sponsor: D Law	
<b>2) Smart Grid – Status and Activities</b> 7:30-9:00PM      sponsor: Kraemer/Heile	
<b>2) Edge Virtual Bridging</b> 9:00-10:30PM      sponsor: Thaler/Jeffree	

Nikolich discussed the 802 EC workshop and presented the action items.

# EC Workshop Action Items

- 802 Architecture (7 Nikolich/Jeffree/EC)
- Disparities in WG practice for common problems (4 Rosdahl/Law/Nikolich/EC)
- Succession Training (12 Gilb/Kraemer/Nikolich/Law/Grow/EC)
- Leverage (5 Marks/Nikolich/Jeffree/Gilb/Law/Hawkins)
- Distribution of Standards and Drafts (1 EC)
- Downloadable and Machine Readable Content (2 Thompson/Law)
- Process Changes (11 Gilb/Rosdahl/Thaler/Kraemer/Law/Marks/EC)
- Inter-group complaints/relationships (2 Nikolich/Marks)
- 30<sup>th</sup> Anniversary Celebration (5 Rigsbee/Thomson/Kraemer/Marks/Gilb)
- Scope of 802.21 (2 Gupta/Jeffree)
- Domination and other distortions to the consensus process (1 Thaler/Nikolich)

Nikolich presented the 802 EC meeting schedule for the week.

# EC meetings for the week

(held in Heritage Boardroom)

- Monday 8-noon open
- Monday noon-6pm open
  
- Tuesday 9-11am reserved (Nikolich)
- Tuesday 11am-1pm open
- Tuesday 1-3pm open
- Tuesday 3-5pm open
- Tuesday 5-7pm open
- Tuesday 7-9pm open
  
- Wed 1:00-2:00pm Attendance tool discussion (Gilb)
- Wed 2:00-4pm 802 Task Force (Nikolich)
- Wed 4-5pm modification to registration and hotel deadlines (Rigsbee)
- Wed 5-6pm open
  
- Thursday 10-11am 30<sup>th</sup> anniversary planning (Rigsbee)
- Thursday noon-1pm open
- Thursday 1-2pm open
- Thursday 2-5pm open

Thompson presented on the ES-ECSG, ES-ECSG For PLEN 11-16-09.pdf

Andrew Myles (Cisco) asked what the interest level was in the SG

Thompson said that the attendance was low, 12 people signed in with 4 people doing the core work.

802 Emergency Services

Executive Committee Study Group

Geoff Thompson, Chair

Plenary Report, November 2009

Meeting T/W/Th this week in

Vinings Conference Room

(Lowest level of the hotel)



Group was chartered at the end of the July meeting

As the successor to ES in 802.1

(802.21 Proposed PAR for ES was withdrawn)

# Restricting Scope

We intend to confine the first project to:

Citizen – to – Authority (E911) communications

Focus on IP based “calls”

# Drafted proposed new Scope

## **Scope of Proposed Standard:**

- This standard will define a mechanism that supports the need for consistent data that is specifically required for citizen-to-authority emergency services packet data encoded session initiation request and support compliance within IEEE 802 to applicable civil authority requirements.
- A new MAC or PHY is outside the scope of this effort.

# Drafted proposed new Purpose

- The purpose of this standard is to support compliance to civil authority requirements complementary to IETF ECRIT specifications for citizen to authority emergency services functionality. This standard intends to encompass voice, data and multi-media requests across IEEE 802 using a new Layer 2 entity and associated behaviors and provide a uniform Structure of Management Information (SMI) for transferring required data for emergency services requests.

# Drafted/Revised other PAR text (1)

## **5.5 Need for the Project:**

VoIP emergency calls are less effective than those provided by traditional wireline and contemporary cellular networks.

Data encoded emergency calls across IEEE 802 technologies need to support regulatory requirements to assure successful completion of these calls to the correct Public Service Access Point (PSAP), and to do so utilizing the existing set of IEEE 802 PHYs and MACs.

# Drafted/Revised other PAR text (2)

## **5.6 Stakeholders for the Standard:**

Emergency Service authorities and government agencies (e.g. NENA, and the equivalent bodies in ROW); IETF; other telecom, cellular and emergency services standards development organizations (e.g. IETF, 3GPP, ETSI EMTEL). Within IEEE 802, the expected stake holders will be 802.1, 802.3, 802.11, 802.16, 802.20 and 802.22 as potential layer 2 alternatives and 802.21 for related handover development.

# Reworked 5 Criteria

- During the meeting we thought we were done.
- Reviewing afterward, I think we need to refine them some more.
- Therefore, I won't go through them here.
- The current state is posted on the Mentor web site as “Agenda ~~~0924~~.pdf”
- See last slide for URL

# Plans

## Next meetings

- Atlanta Plenary

We will meet mid-week.

(Major activity will be refining PAR & 5C and pitching project to the other WGs)

- January Interim

Will be co-located with 802.16 et al at La Jolla (San Diego), CA, Jan 11 – 14, 2010  
(Interim sponsor is IEEE 802)

- Get PAR approved no later than March.



# IEEE 802 Emergency Services EC Study Group

## PLENARY REPORT

Geoff Thompson Chair, IEEE 802 Emer Serv ECSG  
<[thompson@ieee.org](mailto:thompson@ieee.org)>

Agenda, minutes, documents:

[https://mentor.ieee.org/  
802-sg-emergency-services/documents](https://mentor.ieee.org/802-sg-emergency-services/documents)

THANK YOU

Rigsbee gave general meeting announcements. Additional rooms are available in the Hyatt. Rigsbee showed a sample of the 30<sup>th</sup> anniversary shirt. Rigsbee mentioned the upcoming meeting in Singapore in 2011.

Peter Eccelsine (Cisco) asked if we will have internet access in our rooms.

Rigsbee said that in-room access is complimentary for all attendees. Charge the connection to the room (business or basic) and the charge will be removed. We will have complimentary internet in-room service in Orlando as well.

Eccelsine asked about non-North American sites.

Rigsbee said that we will have complimentary in-room internet service in Singapore.

Meeting adjourned at 11:58 am local time.

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

Respectfully submitted  
James Gilb  
IEEE 802 recording secretary