

**MINUTES (Unconfirmed) - IEEE 802 LMSC
EXECUTIVE COMMITTEE MEETING, Revision 0**

Monday, July 18, 2010 – 8:00 a.m.
All times Pacific Daylight Time (PDT)

San Francisco, California

EC members present:

Paul Nikolich – Chair, IEEE 802 LAN / MAN Standards Committee
Pat Thaler – Vice Chair, IEEE 802 LAN / MAN Standards Committee
Mat Sherman – Vice Chair, IEEE 802 LAN / MAN Standards Committee
James Gilb – Recording Secretary, IEEE 802 LAN / MAN Standards Committee
Jon Rosdahl – Executive Secretary, IEEE 802 LAN / MAN Standards Committee
Bob Grow – 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 Working Group
Subir Das – Chair, IEEE 802.21 – Media Independent Handover Working Group
Geoff Thompson – Chair, IEEE 802.23 Emergency Services Working Group

Non-voting members present:

Buzz Rigsbee – Meeting Planner, Member Emeritus

EC members absent:

John Lemon – Chair (non-voting), IEEE 802.17 – Resilient Packet Ring Working Group
Mark Klerer – Chair (non-voting), IEEE 802.20 – Mobile Broadband Wireless Access Working Group
Apurva Mody – Chair, IEEE 802.22 – Wireless RANs Working Group

Gerald Chouinard, Vice Chair, IEEE 802.22 – Wireless RANs, Working Group is attending for the Chair, but is not voting.

v02

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 08:04 AM

Meeting called to order at 8:04 am.

IEEE	
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: 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.	
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 X3 Secretary.	
Method of Coordination: <u>Communications Society</u> <u>Computer Sids. Committee (added by amendment 9/17/81 Std 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> Street address: <u>1650 Belvoir Drive</u> <u>Los Altos, CA 94022 (415) 941-6699</u> City: _____ State: _____ Zip Code: _____ Telephone: _____	

JUL 2011
IEEE 802
LMSC

Opening EC Meeting
8 AM-10:30AM

Motion is to approve the agenda, version 01, posted to mentor and sent on email.

Nikolich removes 5.00 from the consent agenda.

Marks asked what was the implication of an information item (II) on the consent agenda.

Law said that it means that the group is accepting the report.

Marks asked for it to be clarified that II items on the consent agenda should be put in the minutes.

Nikolich said that II consent agenda items will be put in the minutes.

Kraemer asked for 5.30 to be removed from the consent agenda.

Nikolich asked for 5.16 and 5.17 to be switched in time.

Modified agenda is v02, motion is to approve the modified agenda.

Moved by Law, seconded by Jeffree

Vote is 12/0/0, agenda is approved.

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
2.00	MI APPROVE OR MODIFY AGENDA	Nikolich	4	08:01 AM
3.00	MI* APPROVE Minutes of March opening meeting, 20110314-opening-minutes-v0.pdf	Nikolich	0	08:05 AM
3.01	MI* APPROVE minutes of March closing meeting, 20110318-closing-minutes-v0.pdf	Nikolich	0	08:05 AM
3.02	MI* APPROVE minutes of June conference call, 2011-06-07-call-minutes-v0.pdf	Nikolich	0	08:05 AM
4.00	II EC member affiliation updates	Nikolich	5	08:05 AM
4.01	II IEEE Staff Introductions	Nikolich	5	08:10 AM
4.02				08:15 AM
4.03				08:15 AM
4.04				08:15 AM
				08:15 AM
	LMSC items			08:15 AM
5.00	II BoG Actions	Nikolich	2	08:15 AM
5.01	II* Stds Board Actions (approved projects, standards, withdrawals)	Nikolich	0	08:17 AM
5.02	II* LMSC Email Ballot Recap	Nikolich	0	08:17 AM
5.03	II LMSC Meeting Fee Waivers	Nikolich	5	08:17 AM
5.04	II Tutorial schedule	Nikolich	5	08:22 AM
5.05	II List of Drafts to Sponsor Ballot	Nikolich	10	08:27 AM
5.06	II List of Drafts to Revcom	Nikolich	10	08:37 AM
5.07	II Notice of Study Groups under consideration/status of existing SGs	Nikolich	5	08:47 AM
5.08	II PARS to NesCom	Nikolich	10	08:52 AM
5.09	II 802.23 WG status and plans	Thompson	5	09:02 AM
5.10				09:07 AM
5.11				09:07 AM
5.12	II 802 EC and IEEE SA staff meeting announcement Tues 6-8pm	Nikolich	5	09:07 AM
5.13	II 802 Task Force update	Nikolich	5	09:12 AM
5.14	II myBallot and myProject--feedback from 802 update	Thaler	5	09:17 AM
5.15	II IEEE SA "etools" update	Boyce/Labelle	5	09:22 AM
5.16	II JUN 2011 SC6 meeting recap	Kraemer	5	09:27 AM
5.17	II 802 JTC1 ad hoc update (8802 doc, PSDO interpretation, plans for the week)	Myles	5	09:32 AM
5.18	II NOV 2011 EC Workshop plans in Atlanta	Nikolich/ Rigsbee	5	09:37 AM
5.19	II Meeting planner and Network Service Provider contract update	Rigsbee	5	09:42 AM
5.20				09:47 AM
5.21	II Document publication priority update	McCabe	5	09:47 AM
5.22	II Single copy sales of PDF status update	McCabe	5	09:52 AM
5.23	II* Get IEEE 802 Update	McCabe	0	09:57 AM
5.24	II Treasurer's report	Grow	5	09:57 AM
5.25				10:02 AM
5.26	II 802 Overview and Architecture update	Gilb	3	10:02 AM
5.27	II RAC--proposed change in the OUI registry and machine visualization	Parsons	5	10:05 AM

5.28	II	P&P update	Sherman	10	10:10 AM
5.29	II	Computer Society History Committee "802 history brochure"	Nikolich	5	10:20 AM
5.30	II	IEEE SA SmartGrid program update	Kraemer	1	10:25 AM
5.31	II	Developments at the May meeting of ITU-R WP1A	Lynch	3	10:26 AM
5.32					10:29 AM
5.33	II	EC meeting schedule (rules, SA, etc.)	Nikolich	3	10:29 AM
5.34					10:32 AM
5.35					10:32 AM
5.36	DT	ADJOURN SEC MEETING	Nikolich		10:30 AM

ME - Motion, External

MI - Motion, Internal

DT- Discussion Topic

II - Information Item

3.00	MI*	APPROVE Minutes of March opening meeting, 20110314-opening-minutes-v0.pdf	Nikolich	0
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Approved as part of the consent agenda.

3.01	MI*	APPROVE minutes of March closing meeting, 20110318-closing-minutes-v0.pdf	Nikolich	0
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Approved as part of the consent agenda.

3.02	MI*	APPROVE minutes of June conference call, 2011-06-07-call-minutes-v0.pdf	Nikolich	0
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Approved as part of the consent agenda.

4.00	II	EC member affiliation updates	Nikolich	5	08:11 AM
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Nikolich asked for any changes to affiliation.

Marks asked what was the time period for the change.

Nikolich clarified that it was for changes since the Singapore meeting.

Marks is now affiliated with Consensii, LLC.

Nikolich has added HP as an affiliation.

4.01	II	IEEE Staff Introductions	Nikolich	5	08:13 AM
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Nikolich introduce the IEEE Staff. Nikolich invited the senior IEEE staff to attend the meeting.

It was pointed out that the correct title for Bob LaBelle was in item 10. Item 3 is a duplicate with the wrong title. Nikolich updated the slide for the minutes.

IEEE Staff Introductions

1. Michelle Turner Sr. Program Manager, Document Development
2. Patricia Gerdon: Manager, Technical Program Development
3. Terry DeCourcelle: Staff Director International Programs and Governance
4. Kathryn Bennett: Program Manager, Technical Program Development
5. Judy Gorman: Managing Director
6. Karen McCabe: Staff Director Strategic Marketing and Product Management
7. Karen Kenney: Staff Director Financial Management and Allied Businesses
8. Christina Boyce: Manager Standards Solutions Services
9. Bob Labelle: Staff Director Industry Connections/Standards Tech Dev & Solutions

RAC Meeting: Angela Thomas, Business Programs Manager

Nikolich covered the BoG update. John Messenger was not approved as an IEEE External Rep to ITU-T. Law suggested that perhaps it was because Messenger was already a representative for his company. Steve Mills said that the policy is that you cannot be active representing a company and also represent the IEEE. Nikolich asked if it is critical that someone fills the role. Thompson asked what is the action. Nikolich said that the WG chairs will discuss it in the group and come back on Friday.

June 2011 SA BoG Update

- Items of interest to 802 community
 - ISO/SA agreement still under negotiation
 - John Messenger not approved as IEEE External Rep to ITU-T
 - Reaffirmation/Stabilization policy withdrawn, new policy (either Revise or Withdraw) goes into effect 01JAN2012
 - 2012 RAC pricing will be increased across the board using the 2010 CPI factor used for SA membership rounded up to the nearest \$5

Report approved as part of the consent agenda.

SA Standards Board Actions

Standards Actions (approvals)

New Standards: 802.1Q, 802.1Qaz, 802.1Qbb, 802.1Qbc, 802.1Qbe , 802.3bg, 802.3bf, 802.3.1, 802.3bd, 802.15.7, 802.16m, 802.22,

Revised Standards: 802.1Q, 802.15.4, 802.17,

Reaffirmations: 802.1D-2004 reaffirmation

Corrigendum: none

Extensions: none

Withdrawals: none

SA Standards Board Actions

Project Actions (approvals)

New Projects: [P802.1Qbp](#), [P802.16.1](#)

Modified PAR: [P802.15.7](#)

Revisions: [P802.3.1](#), [P802.16](#)

Reaffirmations: none

Corrigendum: none

Withdrawals: none

Extensions: none

Report approved as part of the consent agenda.

LMSC Email Ballot Recap

	<u>open date</u>	<u>topic</u>	<u>yes/no/abs/dnv</u>	<u>result</u>
1)	28MAR	802.3bg 40Gb/s SM pr	15/00/00/01	pass
2)	19APR	802.11u Interworking pr	14/00/00/02	pass
3)	19APR	802.11v Net Mgmt pr	14/00/00/02	pass
4)	27APR	802.3 Enet BW pr	14/00/00/02	pass
5)	13MAY	802.3bf Time Sync pf	13/00/00/03	pass
6)	13MAY	802 Input to ITU-R	14/00/00/02	pass
7)	19MAY	hibernate 802.17 WG	15/00/00/01	pass
8)	07JUN	NetFPGA tutorial	08/01/03/03	pass
9)	12JUN	802.11z Direct Link pr	12/00/00/03	pass

Nikolich presented the meeting fee waivers.

Motion is to approve waiving of the registration fee for the above invited participants.

Moved by Kraemer, second by Jeffree

Thompson asked that Marc Weber and an two assistants to setup for the tutorial on Monday

No objection from the mover or the seconder.

Vote is 13/0/0, motion passes.

Meeting Fee Waivers

- IEEE SA Staff listed earlier
- Invited Participants
 - Mick Seaman, Brian Weiss and Phil Wennblom for JTC1 ad hoc meetings
 - Yasuhiko Wachi ARIB delegate to ½ day WMAN-Adv Transposition mtg
 - Bill Quackenbush, former long time EC member
 - Marc Weber plus two assistants, ALOHA tutorial support
- EC Motion: Approve waiving of the registration fee for the above invited participants
 - mover:Kraemer, seconder: Jeffree

Nikolich presented the tutorial schedule.

Thompson said that the Computer History Museum (non-profit) would be taping the presentation. He clarified that the IEEE would get a copy that can be copied and used for internal use, but not to be sold.

Nikolich said that the third tutorial, NetFPGA, has been cancelled.

Tutorial/Information Schedule

Monday	notes
1) ALOHA to the Web 6:00-7:30PM sponsor: B Heile	CHM permitted to video
2) Geolocation Technologies Suitable to Meet Regulatory Requirements in TV Whitespaces 7:30-9PM sponsor: A Mody	
3) NetFPGA - Rapid Prototyping of 802 Technologies 9-10:30PM sponsor: D Law	

Nikolich presented the list of drafts scheduled for consideration to go to Sponsor ballot at the Friday meeting.

802.1 – none

802.3 - none

802.11 – 802.11aa (cond), 802.11ae (cond).

802.15 – 802.15.4e, 802.15.4f, 802.15g, 802.15.6

802.21 – 802.21a, 802.21b

802.22 – none

802.23 – none

Draft Standards to Sponsor Ballot

- Check with EC members
- 802.01: none
- 802.03: none
- 802.11: 11aa (cond), 11ae (cond)
- 802.15: 15.4e, f, g; 15.6
- 802.16: none
- 802.19: none
- 802.21: 21a, 21b
- 802.22: none
- 802.23: none

Nikolich presented the list of drafts for consideration to be forwarded to RevCom

802.1 – 802.1AEbn, 802.1BA

802.3 – none

802.11 – 802.11s

802.15 – none

802.16 – none

802.19 – none

802.21 – none

802.22 – none

802.23 – none

Items for RevCom consideration

- Check with EC members
- 802.01: .1AEbn, .1BA,
- 802.03: none
- 802.11: 11s (uncond)
- 802.15: none
- 802.16: none
- 802.19: none
- 802.21: none
- 802.22: none
- 802.23: none

Nikolich presented the list of Study Groups under consideration and status of existing SGs.

802.1 – none

802.3 – 100 Gb/s backplane (2nd), Next Generation 100 Gb/s Ethernet interfaces for Optical Fiber (new), Extended Ethernet Passive Optical Network (EPON) PMDs (new)

802.11 – none

802.15 – Personal Spaces Communication (5th), TVWS (2nd)

802.16 – none

802.19 – none

802.21 – none

802.22 – Smart Grid and Critical Infrastructure Long Range Applications (new)

802.23 – none

Grow noted that a 5th extension would be a record and require explanation.

Heile said that the group restarted in Singapore and has a new scope.

Nikolich suggested that if the scope changed, it should be presented as a new one.

Status of Study Groups

- WG chairs to report
 - SGs?
 - 802.1- none
 - 802.3 – 100 Gb/s Backplane and Copper Study Group (2nd ext), Next Generation 100Gb/s Ethernet Interfaces for Optical Fiber, Extended Ethernet Passive Optical Network (EPON) PMDs
 - 802.11– none
 - 802.15 – Personal Spaces Communications (5th extension), TVWS 15.4 (2nd ext)
 - 802.16 - none
 - 802.18 - none
 - 802.19 - none
 - 802.21 - none
 - 802.22 – SMART Grid and Critical Infrastructure Monitoring, long range applications
 - 802.23 - none

Nikolich presented the PARs that are going to NesCom

802.1 – 802.1AXbq amendment, 802.1ASbt, 802.1 AS (corrigendum), 802.1BR (new), 802 PAR extension, 802aq PAR extension extension

802.3 – 802.3bj amendment

802.11 – none

802.15 – 802.15.4m amendment

802.16 – none

802.19 – none

802.21 – none

802.22 – 802.22 amendment

802.23 – none

Draft PARs to NesCom

1. 802.1AXbq amendment for distributed resilient network interconnect
 2. 802.1ASbt amendment for timing and synchronization for time-sensitive applications
 3. 802.1 AS corrigendum, PAR, no 5C required as this is a maintenance item.
 4. 802.1BR new standard for bridge port extension
 5. 802.3bj amendment for 100 Gb/s operation over backplanes and copper cables
 6. 802.15.4m amendment to 802.15.4 for TV white space PHY
 7. 802.22 amendment for management and control plane interfaces and procedures and management information base enhancements, PAR and 5C
- Maintenance PARs (48 hour notice)
 - PAR extensions; 802 and 802.1aq

Thompson discussed the status of 802.23.

Thompson has produced a draft. At the May meeting, attendance was 3 people, but did have a subject matter expert as one of the attendees.

Thompson said that one commenter (Jeffrey) said that the draft was almost content free.

Thompson said that the initial support has faded and that it does not seem like this group will be able to create a standard. The group will meet all week and Thompson will come back with a recommendation for how to proceed at the Friday closing plenary.

Kraemer said that he still sees a use for this technology and thinks that FCC rules, e.g., improved geolocation for VOIP calls.

Thompson said that 802.9f, which never made it past draft stage, but has been useful as an archived document.

There was discussion among the EC members regarding the utility of the group. Some spoke to indicate that this seems to be an important issues. Others said that if there is no participation and no contributions, then it is difficult to create a standard.

Nikolich discussed the IEEE SA staff meeting on Tuesday, 6-8 pm.

Karen McCabe spoke regarding issues and that she is the

Nikolich presented the 802 Task Force agenda, which may not be necessary, based on the results of the Tuesday meeting.

IEEE-SA Staff and 802 mtgs

- Meeting between 802 EC and SA Sr. Managers, Tues 6-8PM
 - Agenda--Review issue set between 802 and SA
- 802 Task Force, Wed 1-3pm
 - Tentative agenda
 1. Single Copy Sales Channel--update (McCabe)
 2. JTC1/SC6 update regarding potential 802 items
 3. GetIEEE 802 budget (Grow)
 4. Status of 'fast publishing' trial (Turner)
 5. ITU-T IEEE external representative, Messenger rejected, replacement?
 6. Action item review – Nikolich
 7. Adjourn

Thaler reported on the status of issues with myBallot. All the basic items have either been fixed or are scheduled to be fixed.

Christina Boyce from IEEE also spoke regarding fixes and improvements to myBallot and myProject

Grow said that there are still too many comments being submitted as external files, which makes it difficult for RevCom to determine if the comments were shown to the ballot group.

Kraemer said that there is ad-hoc work on Sponsor ballot tools.

Law clarified that it is a RevCom ad-hoc.

Thaler said that one of her concerns is with showing disapprove comments which are a basis of a disapprove vote.

Thompson said that the main issue is with amateur balloters.

Law said that the intention was to make it clear that there is a risk to RevCom approval

Nikolich suggested a Friday morning meeting to collect inputs for myBallot/myProject

Boyce spoke regarding other e-tools, including mentor. She is working with VeriLAN regarding IMAT. She is the contact for all the e-tools for IEEE.

Adrian Stephens (Intel) said that as a user there is a lack of communication when requirements are being developed and in maintenance. Tickets for maintenance go into a black hole and you only get a response when you complain. He asked for more openness.

Boyce said that she is going to get more support staff.

Stephens asked for a concrete plan rather than an intent. He asked if we would have a plan presented at the next plenary for improved communications.

Boyce said that she thinks it is likely.

Grow indicated that 802 uses new technology and requires it, which is why our group generates so many complaints.

Kraemer asked if this discussion is part of the Tuesday evening session.

Nikolich said that it would be.

Marks said that part of the problem is that the scale of 802 is big and that the IEEE should be planning to scale up.

Boyce said that the development of the next generation of tools is in its infancy. They are looking at expanding to support outside groups.

Nikolich said tha the list of people to work with Boyce are: Rosdahl, Marks, Grow, Alfvín, Thaler, Thompson.

Kraemer spoke regarding the SC6 meeting in San Diego. He thanked all the people who attended, they had a large contingent. It was the first time the IEEE had eight people attending an SC6 meeting. All presentations were presented and were well received.

Kraemer said that one item was the list of 802 standards to be removed from ITU based on lack of activity. The motion was deferred and the IEEE was asked to work on the list prior to the next meeting. Kraemer invited D.Y. Kim from SC6 to attend and he will be arriving today to attend the afternoon session.

Kraemer said that next SC6 meeting will be in Guangzhou China sometime in February, 2012.

Andrew Myles (Cisco Systems) spoke regarding the JTC1 ad-hoc is to discuss issues with SC6. One topic is when 802 documents should be sent across for removal from ISO. That is the primary topic for this afternoon.

Tuesday 4-6 pm is 802.1AX security replacement.

Law asked that any 802.3 discussion be summarized for the 802.3 WG as they cannot attend the Wednesday morning JTC1

ad-hoc meeting.

Myles said that he would.

Myles said that on Thursday, the ad-hoc would process any motions and make any decision.

Kraemer said that he will need an agenda item on Friday for ISO issues, MI probably to form an ad-hoc.

5.18 II NOV 2011 EC Workshop plans in Atlanta

Nikolich/ Rigsbee

5 09:31 AM

Nikolich said that Kraemer has agreed to chair the workshop and Rosdahl has agreed to be secretary.

Rigsbee presented 802-1111-EC Workshop Format-03.pdf

EC Workshop Format for Atlanta Session (Version 3)

A nice board room set-up for 20 people (with 7+6+7 in a U-shape) with power plugs, an LCD projector in the middle, a large screen at the open end with about 10-12 extra chairs around the periphery for observers. We will need several tables at the back for F&B services. The 2-day schedule would be as follows:

Saturday, November 12, 2011, from 7am-11pm with the following:

- 7am-8:30am: Buffet breakfast service for 20 with 3 juices, 2 entrees, fruit, yogurt, bagels, and pastries, plus coffee & tea {menu to be determined later}
- 8am: Meeting begins
- 9-11;30am: coffee & tea service with chilled mineral water and assorted beverages
- 12-1pm: Buffet Lunch service for 20 with salad, 2-3 entrees, fruit, dessert, assorted beverages and iced tea {menu to be determined later}
- 1pm: Meeting continues
- 1-6pm: beverage service with coffee & tea, assorted beverages, assorted cookies and other snacks {selection to be determined later}
- 6-7pm: Dinner Break {menu to be determined later}
- 7pm: Meeting continues to 11pm
- 7-11pm: coffee & tea service with chilled mineral water and assorted beverages

Sunday, November 13, 2011, from 7am-5pm with the following:

- 7am-8:30am: Buffet breakfast service for 20 with 3 juices, 2 entrees, fruit, yogurt, bagels, and pastries, plus coffee & tea {menu to be determined later}
- 8am: Meeting continues
- 9-11;30am: coffee & tea service with chilled mineral water and assorted beverages
- 12-1pm: Buffet Lunch service for 20 with salad, 2-3 entrees, fruit, dessert, assorted beverages and iced tea {menu to be determined later}
- 1pm: Meeting continues (Action Item Review & Planning)
- 1-5pm beverage service with coffee & tea, assorted beverages, assorted cookies and other snacks {selection to be determined later}
- Meeting Adjourn at ~5pm

Nikolich said that 9-10:30 will be for subcontractor discussion with Grow, Rosdahl, Rigsbee and Nikolich.

Rigsbee discussed the meeting planner contract. They have made revisions to the IEEE template to be applicable for a meeting planner. It has been distributed and appears to be OK.

Rigsbee said that it has been 5 years since we did an RFP for network services. We will either need a short extension or have to go for an RFP

McCabe presented 802 July 2011 Plenary_Publishing Prioritization Update.pdf

Grow pointed out that 802.3 edition (says 802.2 edition on the slide) is not scheduled for publication, it is being developed for WG ballot, not for publication.

Law said that we should reach agreement on the topic of editions. With the reaffirmation going away, we need to discuss how to handle revisions.

McCabe said that this would be discussed Tuesday night.

Marks asked if we can include in the discussion issues regarding an 802.16 revision.

Jeffree said that he would like to see an edition soon after the 802.1Q amendments are published.

McCabe said that she would work with him on that.

IEEE 802 Standards Publishing

IEEE 802 Plenary/802 Opening EC

18 July 2011

Karen McCabe

Staff Director, Marketing & Product Development



802 Standards Publishing Schedule

Standard	Brd Approval	Pub Date	Notes
802.3bf	16 May	15 Jul	After the edition
802.15.7	16 June	16 Sept	
802.15.4	16 June	1 Sept	
802.17	16 May	10 Oct	
802.1Q	16 May	22 Aug	
802.1Qaz	16 June	31 Sept	Dependent upon .1Q
802.1Qbb	16 June	7 Sept	Dependent upon .1Q
802.Qbc	16 June	23 Sept	Dependent upon .1Q
802.1Qbe	16 June	7 Sept	Dependent upon .1Q
802.3bd	16 June	5 August	
802.2 Edition	N/A	Early July	
802.11S	10 Sept	10 Sept	

McCabe presented 802EC_11July_Standards Store Update Public.pdf

Stevens asked how many .11u and .11v standards were sold.

McCabe said it was 2-3.

Thaler said that she searched for a word she knew was in the keywords field, but the search failed.

McCabe said that it should be fixed.

IEEE-SA Standards Store Update

Karen McCabe, Staff Director, Marketing & Product Development

IEEE 802 Opening EC

11 July 2011



IEEE Standards Store

standards.ieee.org/store

- Since launch traffic to online store and sales have been steadily increasing
- 8 April to 30 June 2011
 - Visits: 16,952
 - Conversion rate: 6.7%
 - Avg time on site: 3.09 mins
 - Avg pgs viewed per visit: 3.6
 - Top referring sites
 - standards.ieee.org
 - ieee.org
 - Linkedin.com
 - Facebook.com
 - grouper.ieee.org

IEEE Standards Store

- Top selling 802 standards
 - IEEE 802.1AS-2011
 - IEEE 802.11u-2011
 - IEEE 802.11v-2011
 - IEEE 802.Qat-2010

Work Plan

Search	Issue Description	Solution	Status
Sort order	Most recent documents should appear "first"	Consolidated superseded/historic versions under active base std, sort by publication date	Complete
Standards status	Need to incorporate SA standard status terminology	Until longer term fix in place, will append status to end of document title	In progress Aug deliverable
Display of amendments, drafts, etc.	Amendments are not appearing as individual record; Some drafts are appearing as amendments	Amendments consolidated under base std; All drafts will be tagged as Drafts	Complete Complete
Keywords/terms	Partial std number searches produced incomplete results; Searching by industry terms didn't produce expected results	Search function modified; Added keywords/terms to enhance searchability	Complete Complete

Work Plan

Browse	Issue Description	Solution	Status
Browser incompatibility	Browse not functioning properly on IE when store launched	Fix browser loading issues for IE	Complete
Sorting buttons	Browse sorting buttons were non-functional	Fix browse button functionality. Default to std no., with ability to resort by date, title and most popular	Complete
Standards in multiple categories	802 stds limited to one category	Modify data feed so that a std has multiple assigned categories	In progress Aug deliverable
Browse tree	Request to add another category level for each 802 "dot" std	Modify browse tree structure data to include family level	In progress Nov deliverable

Work Plan

Product Details	Issue Description	Solution	Status
Corrigenda	Not displaying corrigenda consistently in store interface	Data relationship adjustments in stds database	Complete
Draft designations	Draft designation of "P" and version of drafts was not appearing in browse/search results	Program feed so "P" would be associated w/ draft and render, & incorporate draft version in data feed.	Complete
Truncated titles	Some IEEE std titles very long, resulting in titles being truncated	Edit titles down to 300 or less characters Extend no. of characters in title field	Complete TS cannot accommodate at this time. Still working the issue to incorporate into TS future release.

THANK YOU!

Report 802 July 2011 Plenary_Get 802 UpdateFINAL.pdf accepted as part of the consent agenda.

Get IEEE 802® Update

IEEE 802 Plenary/802 Opening EC

18 July 2011

Karen McCabe

Staff Director, Marketing & Product Development



Download

Download Stats

Program total downloads to date (April 2003 to June 2011)	5,633,776
Program 2011 Year to Date downloads (Jan 2011-July 2011)	249,920

User Type (April 2003 to Feb 2011)

User Type	Downloads
Academic/Student	2,005,883
Attorney/Legal	15,501
Government	138,136
Journalist	52,642
Network Equipment Mfg	553,865
Network Service Provider	4
Network Silicon Mfg	120,965
Network Software Developer	353,144
Other	844,677
Private Network Service Provider	151,605
Public Network Service Provider	347,575
Silicon Mfg	2
Standards Developer	187,559
Systems Admin	235,898
Unknown	626,320

Most Downloaded Standards

Most requested for download in 2011:

- 802.11-1999
- 802.11-2007
- 802.11b-1999
- 802.3-2007
- 802.16-2004

New Program Entries

Standards added into program

- 802.22-1-2010
- 802.11z-2010
- 802.1Qat-2010
- 802.3Z-2010
- 802.3ba-2010

Thank You

Grow presented 2011_07 TreasOpening.pdf

Grow said that we have overpaid VeriLAN, but that is being applied as payment for future sessions. The carryover should be gone by November.

Grow indicated that for waived meeting registrations this is conted for Face to Face events, but is not counted for Get802.

Thaler indicated that having the detailed numbers available is important.

Rosdahl said that the numbers have to be generated anyway, even if they are not presented.

For this week, we are around 800 for attendance.

Draft

IEEE Project 802
Estimated Statement of Operations
Mar 2011 Plenary Session
Singapore
As of Jul 17, 2011

Income	Estimate									Budget					Var	Var %
	Fee	Cxl	LCxl	Gross	Cxl	LCxl	Net	Net Amt	%	Gross	Cxl	Net	Net Amount	%		
Paid Registration Summary (dB)																
Pre-registration	\$ 800	\$ (800)	\$ (750)	18	0	0	18	\$ 14,400	3%	36				4%		
Pre-registration (with discount)	\$ 500	\$ (500)	\$ (450)	494	26	13	455	\$ 228,150	65%	630				70%		
Web-registration	\$ 1,000	\$ (1,000)	\$ (950)	8	1	0	7	\$ 7,000	1%	27				3%		
Web-registration (with discount)	\$ 700	\$ (700)	\$ (650)	165	6	0	159	\$ 111,300	23%	135				15%		
Onsite-registration	\$ 1,200	\$ (1,200)	\$ (1,150)	20	0	0	20	\$ 24,000	3%	18				2%		
Onsite-registration (with discount)	\$ 900	\$ (900)	\$ (850)	36	0	0	36	\$ 32,400	5%	54				6%		
Student-registration	\$ 150			0	0	0	0	\$ -	0%	0				0%		
Total Registration				741	33	13	695	\$ 417,250	100%	900	27	873	\$519,435	100%	(\$102,185)	-20%
								\$ 417,250	63%					66%		
Non-registration Income																
Deadbeat collections								\$ -	0%				\$ -	0%	\$0	
Bank interest								\$ 1,016	0%				\$ 300	0%	\$716	
Comps & Commissions								\$ 73,693	11%				\$ 92,285	12%	(\$18,592)	
Other: Singapore Sponsorship								\$ 170,313	0.2572				\$ 170,313	22%	\$0	
Total Session Income								\$ 662,271	100%				\$ 782,333	100%	(\$120,062)	-15%
Expenses																
Audio Visual								\$ 794	0%				pkg			
Audit								\$ 6,000	1%				\$ 6,000	1%	\$0	
Bank Charges								\$ 46	0%				\$ 350	0%	(\$305)	
Copying								\$ 36	0%				\$ 4,500	1%	(\$4,464)	
Credit Card Discounts & Fees								\$ 17,879	3%				\$ 25,972	3%	(\$8,093)	
Equipment Expenses								\$ -	0%				\$ -	0%	\$0	
Get IEEE 802 Contribution								\$ 52,125	8%				\$ 65,475	9%	(\$13,350)	
Insurance								\$ -	0%				\$ -	0%	\$0	
Meeting Administration								\$ 81,714	13%				\$ 103,881	14%	(\$22,168)	
Misc Expenses*								\$ 4,572	1%				\$ 4,500	1%	\$72	
Networking								\$ 81,577	13%				\$ 120,000	16%	(\$38,423)	
Other Expenses - Site Survey								\$ 17,221	3%				\$ -	0%	\$17,221	
Phone & Electrical								\$ -	0%				\$ 500	0%	(\$500)	
Convention & Fees								\$ -	0%				pkg			
Shipping								\$ 20,042	3%				\$ 25,000	3%	(\$4,958)	
Workshop								\$ 1,241								
Social								\$ 60,313	10%				\$ 62,500	8%	(\$2,188)	
Singapore Package (a/v,breaks, breakfast, lunch)								\$ 284,365					\$ 324,316		(\$39,951)	
Supplies								\$ -	0%				\$ 1,500	0%	(\$1,500)	
Total Session Expense								\$ 627,923	55%				\$ 744,494	56%	(\$118,606)	
Net Session Surplus/(Loss)								\$ 34,347					\$ 37,838			

* reg counters, grats, CDs

5.26	II	802 Overview and Architecture update	Gilb	3	10:03 AM
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Gilb discussed the status of the 802 O&A. There are two comment resolution meetings, Tuesday 8-10 am and Thursday 8-10 am. The goal is to finish resolving comments.

5.27	II	RAC--proposed change in the OUI registry and machine visualization	Parsons	5	10:05 AM
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Glenn Parsons presented RAC_OUI_Tiers_July2011.pdf.

Parsons presented RAC_Virtualization_June2011.pdf

IEEE Registration Authority

OUI Registry Tiers proposal

An abstract network diagram with glowing blue nodes and lines, set against a dark blue background with a grid pattern. The nodes are connected by lines, forming a complex, interconnected structure that resembles a network or a molecular structure.

Glenn Parsons, RAC Chair
July 2011

RAC Members

- Glenn Parsons, Chair
- Geoff Thompson, (LMSC prime) IEEE 802
- Clint Chaplin, (LMSC alternate) IEEE 802
- Bob Davis, (MSC prime)
- Leonard Tsai, (MSC alternate)
- Tom Kurihara, (VTS / ITS prime) IEEE 1609
- Geoffrey Garner , (I&M prime) IEEE 1588
- Gary Robinson, ex-officio (CS SAB)

Staff

- Angela Thomas, RAC Secretary
- Carmen Hernandez, Registrar

Current OUI based identifiers

- Company_id is a 24-bit OUI value assigned by the IEEE-RA
- CDI-32™ is a concatenation of a 24-bit OUI value assigned by the IEEE-RA and an 8-bit extension identifier assigned by the organization with that OUI assignment.
- TCDI-40™ is a concatenation of a 24-bit OUI value assigned by the IEEE-RA and a 16-bit extension identifier assigned by the organization with that OUI assignment.
- MAC-48 (obsolete label) / EUI-48™ is a concatenation of a 24-bit OUI value assigned by the IEEE-RA and a 24-bit extension identifier assigned by the organization with that OUI assignment.
- EUI-60 (deprecated) is a concatenation of a 24-bit OUI assigned by the IEEE-RA and a 36-bit extension identifier assigned by the organization with that OUI assignment.
- EUI-64™ is a concatenation of the 24-bit or 36-bit OUI value assigned by the IEEE-RA and a 40-bit or 28-bit extension identifier assigned by the organization with that OUI assignment.
- IPv6 is a concatenation of a 64-bit EUI-64™ (derived from a MAC-48/EUI-48™) and a 64-bit extension identifier assigned by the device with the MAC-48/EUI-48™ assignment.

Current creation

<u>Identifier</u>	<u>registry</u>	<u>OUI:ID</u>
• Company_id	OUI	1:1
• CDI-32	OUI	
• TCDI-40	OUI, OUI36	
• MAC48/EUI48	OUI, IAB, OUI36	1:16M
• EUI60	OUI	
• EUI64	OUI, OUI36	1:1T
• IPv6	OUI, IAB, OUI36	

Some identifiers can only be created from one registry in the OUI number space

Market usage

- The RAC has no data on which “OUI based identifier” a customer intends to create
 - Without this, we are only guessing on the best reorganization
 - But the assumption is the bulk of usage is to create MAC48
 - A “prime directive” of the RAC is to not run out of global MAC48 addresses for 100 years
- Volume data from RAC report is:

<u>Registry</u>	<u>2010</u>	<u>all time</u>
OUI	1248	15,004
IAB12	461	3,622
OUI36	12	58

~250 billion MAC48 (of ~70 trillion possible) addresses have been assigned – but are they all used?

A clearer tiering would reduce “lost” or “unused” MAC48 addresses

RAC Proposal

- Maintain existing registries
- Close IAB12 when full
- Add new registry for OUI as company_ID
- Add additional tiers for more granular and usage appropriate MAC48 & EUI64 usage
- Include ability to sell bookends for single address and volume MAC48 needs
- Pro
 - Retains current registries
 - Adds company_id separation for small company usage
 - Opportunity to simplify and rationalize IABx/OUI48-x to be same registry
 - Design registries to fit usage. Besides the existing and the bookends, no obvious technical reason for selection of others
- Con
 - Separate company_id registry (that cannot be used to create addresses) may be confusing
 - Closing IAB12 may cause confusion
 - A lot of granularity

Proposed OUI-based Registries

- OUI *existing*
- Company-ID
- OUI48
- OUI42 ?
- OUI36 *existing*
- OUI30 ?
- OUI24
 - Cannot be used as company_ID
- IAB12 *existing*
 - close when full

Registry	MAC48	EUI64
OUI48	1	65536
OUI42	64	4194304
OUI36	4096	268435456 ~270 million
OUI30	262144	17179869184 ~17 billion
OUI24 / OUI	16777216 ~16 million	1099511627776 ~1 trillion

Process

- RAC & RAP (sub-groups of the IEEE-SA BOG) working together to develop reorganization of the OUI set of registries
 - Use of consultant for some work items
- Registry structure proposal will be socialized with customers and WGs seeking feedback on impact
- Market evaluation per identifier
- Evaluate feedback and finalize proposal
- BOG would like to approve organization and pricing in Dec 2011

Your input is requested

IEEE Registration Authority

Virtualization study



Glenn Parsons, RAC Chair
June 2011

RAC Members

- Glenn Parsons, Chair
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- Carmen Hernandez, Registrar

Current RAC Policy on virtualization

- A "prime directive" of the RAC is to not run out of global MAC48 addresses for 100 years
 - that is driving our study of machine virtualization as it has the potential to increase MAC48 address usage dramatically.
- Only one (or at most a few) global MAC48 addresses can be assigned to a single hardware device
 - This is apparently being violated by existing VM vendors

These and some other RAC policies are not publicly available

Is this a problem?

Ask these questions to ourselves and to vendors in the VM space to understand the requirements:

1. Should a MAC48 be the network identifier for VM, equivalent to a MAC48 on a physical machine?
2. If so, should the MAC48 be from the local or global address space?
3. Should the address be globally unique forever or reusable?
4. Should the RAC enforce this?

Solutions?

- Some have suggested that we need to look at the solutions for the VM requirements (before they have been determined), these include:
 - Just allow assignment of MAC48 to VMs
 - Assign OUI address blocks for VM applications (for either or both of the local and global address space)
 - Lease, instead of sell, an OUI/IAB address block
 - Create a DHCP-like mechanism to allow dynamic assignment of MAC48 addresses
 - Create a new “MAC128” identifier for VMs

Your input is requested

Sherman presented VC2_18072011_r0_EC_Rules_Update-opening.ppt

Sherman intends to present a motion to approve the modified rules

Sherman asked for the Detailed Overview to be removed.

There were no objections, Gilb will remove it from the web page.

Rigsbee suggested renaming the newcomers presentations

Thaler will consider a change.

EC Opening Meeting Update on IEEE 802 LMSC Rules

Author:

Matthew Sherman
Vice Chair, IEEE 802
BAE Systems - ES
Matthew.Sherman@BAESystems.com

Date: July 18th, 2011

LMSC Rules Status

- OM and WG P&P are up to date
- LMSC P&P is up to date except for minor AudCom changes
 - Preference is to defer updates till necessary
- AudCom approved our WG P&P (ec-11-0006-01-00EC)
 - Contingent on EC approval (this session)
- Held rules review on 7/17/2011
 - Reviewed editorial changes to WG P&P
 - Included comments from Pat Kinney
 - Latest revision is now on server as ec-11-0006-03-00EC
 - A “clean” version is also posted as ec-11-0006-04-00EC
 - Reviewed and updated Orientation for New participants
 - Will replace “Detailed Overview” currently on LMSC web page
 - Latest revision now on server as ec-11-0010-01-00EC
 - What process happens now to replace “detailed overview” on website?

Summary of “Rules Review”

- Minutes are uploaded as EC-11-0011-00
- Reviewed WG P&P revision as previously noted
 - Editorial changes made and posted
- Reviewed Orientation for New participants
 - Editorial changes made and posted
- Considering changing the time of future meetings to 7 PM.

5.29 II Computer Society History Committee "802 history brochure" Nikolich 5 10:28 AM

Nikolich said that if someone wants to be interviewed, they should contact Dave Walden.

Thaler said that the 802 history presented in Orlando was not balanced.

Jeffree said if they are going to present a brochure, it should be a balanced one.

Nikolich said that people should respond to Dave Walden if they want specific changes.

Thompson said that if we are going to achieve balance, we would need to develop a criteria for balance.

Nikolich said that we would respond to Walden that 802 had a concern about balance.

5.30 II IEEE SA SmartGrid program update Kraemer 1 10:31 AM

Kraemer said that there are two smart grid meetings that are scheduled. They are open to all 802 groups. The most important item is the SGIP PAP2 document. Tuesday right after lunch and Thursday morning.

5.31 II Developments at the May meeting of ITU-R WP1A Lynch 3 10:33 AM

Lynch said that on the 802.18 mentor site, there are about 9 liaison statements. There are different dates for the responses to these requests.

5.33 II EC meeting schedule (rules, SA, etc.) Nikolich 3

Item skipped.

5.36 DT ADJOURN SEC MEETING Nikolich 10:30 AM

ME - Motion, External MI - Motion, Internal

DT- Discussion Topic II - Information Item

Meeting adjourned at 10:34 am

Respectfully submitted

James Gilb

IEEE 802 LMSC Recording Secretary