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

Friday, March 19, 2010 – 1:00 p.m.
All times Eastern Standard Time (EST)

Orlando, FL

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
John Hawkins - Treasurer, 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
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)

Absent members:
Mark Klerer - Chair, IEEE 802.20 – Mobile Broadband Wireless Access
Representing 802.20 – Jerry Upton (Qualcomm)

Meeting called to order at 1:01 pm

r04 **DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING**

Friday, March 19, 2010 – 1:00PM-6:00PM

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**	**01:01 PM**

Nikolich called Dawn Slykhouse to the front of the room. He recognized her 26 years of service for the 802 sponsor as a part of the 30th anniversary celebration. The room applauded her service.

2.00	**MI**	**APPROVE OR MODIFY AGENDA**	**Nikolich**	**9**	**01:04 PM**

Revision 3 of the agenda was presented

Changes were made, agenda updated to r04.

Motion is to approve the agenda as modified

Moved by Lynch, seconded by Shellhammer

Vote is 14/0/1, motion is approved

r04 **DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING**

Friday, March 19, 2010 – 1:00PM-6:00PM

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	01:00 PM
2.00	MI	APPROVE OR MODIFY AGENDA	Nikolich	9	01:01 PM
3.00	MI	WG and TAG Officer Confirmation	Nikolich	30	01:10 PM
3.01	MI	EC Chair Election	Nikolich	5	01:40 PM
3.02	MI	Confirmation of EC appointed positions	Nikolich	10	01:45 PM
4.00	ME	Endorse Glenn Parsons as nominee for RAC Chair	Nikolich	5	01:55 PM
4.01	ME	Announcements from the Chair	Nikolich	5	02:00 PM
					02:05 PM
					02:05 PM
5.00		IEEE Standards Board and Sponsor Ballot Items			02:05 PM
5.01	ME	ECSG PAR for new standard for Emergency Services for Internet Protocol (IP) Based Citizen to Authority Communications to NesCom	Thompson	20	02:05 PM
5.02					02:25 PM
5.03	ME	802.3bg PAR amendment for serial 40 Gb/s Ethernet operation over single mode fiber to NescCom	Law	5	02:25 PM
5.04	MI	802.3az energy efficient Ethernet forward to Sponsor ballot (conditional)	Law	10	02:30 PM
5.05	ME	802.3ba 40/100 Gb/s Ethernet forward to RevCom (conditional)	Law	10	02:40 PM
5.06					02:50 PM
5.07	ME	802.11p wireless access in vehicular environments forward to RevCom (conditional)	Kraemer	10	02:50 PM
5.08					03:00 PM
5.09	ME	802.16n PAR amendment for Higher Reliability Networks to NesCom	Marks	5	03:00 PM
5.10	MI	802.16m IMT-Advanced forward to Sponsor ballot (conditional)	Marks	10	03:05 PM
5.11	ME	802.16h (license exempt) forward to RevCom (conditional)	Marks	10	03:15 PM
5.12	ME*	802.16.2 reaffirmation forward to RevCom	Marks	5	03:25 PM
5.13					03:30 PM
5.14					03:30 PM
5.15	MI	802.20b bridging forward to Sponsor Ballot	Klerer	5	03:30 PM
5.16	MI	802.20a forward to RevCom	Klerer	5	03:35 PM
5.17					03:40 PM
5.18	ME	802.1AXbk PAR amendment for protocol addressing to NesCom	Jeffree	5	03:40 PM
5.19	ME	802.1Qau submit amendment for congestion notification to RevCom	Jeffree	5	03:45 PM
5.20	ME	802.1Qat PAR amendment for stream reservation protocol to NesCom	Jeffree	5	03:50 PM
5.21	ME	Approve interpretation response on 802.1AX	Jeffree	5	03:55 PM
5.22	ME	Approve withdrawal of P802.1H Revision PAR to Nescom	Jeffree	5	04:00 PM
5.23	ME	Approve initiation of reaffirmation ballot for 802.1D	Jeffree	5	04:05 PM
5.24	MI	802.1AS to Sponsor ballot	Jeffree	5	04:10 PM
5.25	MI	802.1Qbb to Sponsor ballot (conditional)	Jeffree	10	04:15 PM
5.26	MI	802.3bd to Sponsor ballot	Jeffree	5	04:25 PM
5.27	MI	802.1Qbe to Sponsor ballot (conditional)	Jeffree	10	04:30 PM
5.28					04:40 PM
6.00		Executive Committee Study Groups, Working Groups, TAGs			04:40 PM
6.01	MI*	802.3 40 Gb/s Single mode fiber (1st extension)	Law		04:40 PM
6.02	MI	802.11 sub 1-GHz PHY	Kraemer	5	04:40 PM
6.03	MI	802.11 fast initial authentication	Kraemer	5	04:45 PM
6.04	MI	802.15 personal spaces communications	Heile	5	04:50 PM

6.05	MI	802.15.4 in the 2.3 GHz band for medical applications	Heile	5	04:55 PM
6.06	MI*	802.16 GRIDMAN (1st extension)	Marks		05:00 PM
6.07	MI*	802.21 wireless network management	Vivek		05:00 PM
6.08	MI	ECSG emergency services, (2nd extension)	Thompson	5	05:00 PM
6.09					05:05 PM
6.10					05:05 PM
7.00		Break		10	05:05 PM
8.00		LMSC Internal Business			05:15 PM
8.01	MI	Reporting affiliation	Gilb	5	05:15 PM
8.02	II	802 Architecture group report and homework	Gilb	5	05:20 PM
8.03	MI	802.2 Working Group cleanup	Gilb	5	05:25 PM
8.04	MI	Set time for opening reports and tutorial presentations to be sent and posted	Gilb	5	05:30 PM
8.05					05:35 PM
8.06					05:35 PM
8.07					05:35 PM
8.08					05:35 PM
9.00		LMSC Liaisons and External Interface			05:35 PM
9.01	ME	Request approval to establish a liaison with the Chinese Communications Standards Association	Kraemer	5	05:35 PM
9.02	ME	Press release for P802.3bg serial 40 Gb/s Ethernet operation over single mode fiber (P802d3bg_PR_V1p0.doc)	Law	3	05:40 PM
9.03	ME	802.3 liaison letter to ITU-T SG 15.	Law	3	05:43 PM
9.04	ME	Contribution to ITU-R WP5D - "IMT-2000 OFDMA TDD WMAN submission toward revision 10 of Recommendation ITU-R M.1457 (meeting x+2)" Doc. 18-10-0021-00	Lynch	3	05:46 PM
9.05	ME	Contribution to ITU-R WP5D - "On Roadmap for Updates of Recommendation ITU-R M.1457" Doc. 18-10-0022-01	Lynch	3	05:49 PM
9.06	II*	Liaison letter to MEF regarding 802.1Qbc	Jeffree		05:52 PM
9.07	II*	Liaison letter to MEF regarding CFM MIB extension	Jeffree		05:52 PM
9.08	II	Liaison letter to ITU/T Q9/15 regarding etherwire, G.8021 and code-point reuse	Jeffree	2	05:52 PM
9.09					05:54 PM
10.00		IEEE SA items			05:54 PM
10.01					05:56 PM
10.02					05:56 PM
10.03					05:56 PM
10.04					05:56 PM
10.05					05:56 PM
11.00		Information Items			05:56 PM
11.01	II	Treasurer's report	Hawkins	5	05:56 PM
11.02	II	30th anniversary wrap up	Risgsbee	3	05:56 PM
11.03	II	Update on upcoming venues	Risgsbee	3	05:56 PM
11.04	II	Report on Plenary Session Break Time Trials	Risgsbee	3	06:01 PM
11.05	II	Followup on July EC Workshop action items	Nikolich	5	06:04 PM
11.06	II	802 Task force report	Nikolich	5	06:07 PM
11.07	II	P&P report	Sherman	5	06:10 PM
11.08	II	Regulatory report	Lynch	5	06:15 PM
11.09	II	Appeals report	Gilb	1	06:20 PM
11.10	II	Network Services report	Alfvin	2	06:25 PM
11.11	DT	Cross working group document access	Kraemer	2	06:30 PM
12.00		ADJOURN SEC MEETING	Nikolich		06:31 PM

Nikolich presented "2010MAR 802 EC officer confirmations.pdf" with the results of the elections of the WG chairs and vice chairs.

Motion is to confirm Tony Jeffree as 802.1 Chair.

Moved by Lynch, seconded by Shellhammer

Marks suggested that we confirm both the Chair and Vice Chair(s) with a single vote and that we hold our applause until the end.

Vote is 14/0/1, Jeffree is confirmed as Chair.

Motion is to confirm Paul Congdon as 802.1 Vice Chair.

Moved by Jeffree, seconded by Law

Vote is 15/0/0, Congdon is confirmed as Vice Chair.

Motion is to confirm David Law as 802.3 Chair and Wael Diab as 802.3 Vice Chair.

Moved by Jeffree, seconded by Marks

Votes is 14/0/1, Law is confirmed as 802.1 Chair and and Diab is confirmed 802.1 Vice Chair.

Motion is to confirm Bruce Kraemer as 802.11 Chair, Jon Rosdahl as 802.11 1st Vice Chair, and Adrian Stephens as 802.11 2nd Vice Chair.

Moved by Lynch, seconded by Rigsbee

Vote is 15/0/0, Kraemer is confirmed as 802.11 Chair, Rosdahl is confirmed as 802.11 1st Vice Chair and Stephens is confirmed 802.11 2nd Vice Chair, respectively.

Motion is to confirm Bob Heile as 802.15 Chair, Rick Alfvin as 802.15 Co-Vice Chair and Pat Kinney as 802.15 Co-Vice Chair.

Moved by Kraemer, seconded by Shellhammer

Vote is 15/0/0, Heile is confirmed as 802.15 Chair, Alfvin is confirmed as 802.15 Co-Vice Chair, and Kinney is confirmed as 802.15 Co-Vice Chair.

Motion is to confirm Roger Marks as 802.16 Chair and Jose Puthenkulam as 802.16 Vice Chair.

Moved by Rigsbee, seconded by Lynch

Vote is 14/0/1, Marks is confirmed as 802.16 Chair and Puthenkulam as 802.16 Vice Chair.

Motion is to confirm Jon Lemon as 802.17 Chair and Michael Kelsen as 802.17 Vice Chair.

Moved by Kraemer, seconded by Jeffree

Vote is 14/0/0, Lemon is confirmed as 802.17 Chair and Kelsen is confirmed as 802.17 Vice Chair.

Motion is to confirm Mike Lynch as 802.18 Chair and Paul Notor as 802.18 Vice Chair.

Moved by Sherman, seconded by Marks

Vote is 14/0/0, Lynch is confirmed as 802.18 Chair and Notor is confirmed 802.18 Vice Chair.

Motion is to confirm Shellhammer as 802.19 Chair and Ivan Reede as 802.19 Vice Chair.

Moved by Marks, seconded by Kraemer

Vote is 15/0/0, Shellhammer is confirmed as 802.19 Chair and Reede is confirmed as 802.19 Vice Chair.

Motion is to confirm Mark Klerer as 802.20 Chair and Radhakrishna Canchi as 802.20 Procedural Vice Chair.

Moved by Shellhammer, seconded by Sherman

Marks asked if there was a requirement for attendance

Sherman said that lack of attendance can be reason for removed from office

Nikolich indicated that the group is planning for hibernation.

Marks asked when the documents would be done.

Upton (Qualcomm) said that they should be finished with all of the documents by the end of the year.

Bravin (none) said that Klerer is a devout Orthodox Jew and is unable to travel during the Sabbath, which can conflict with the closing EC meeting.

Vote is 15/0/0, Klerer is confirmed as 802.20 Chair and Canchi is confirmed as 802.20 Procedural Vice Chair.

Motion is to confirm Subir Das as 802.21 Chair and Juan Carlos Zuniga as 802.21 Vice Chair.

Moved by Gupta, seconded by Sherman

Das and Zuniga introduced themselves, discussed their qualifications and affiliations.

Vote is 15/0/0, Das is confirmed as 802.21 Chair and Zuniga is confirmed as 802.21 Vice Chair.

Gilb indicated that he had not received a letter of endorsement or letter of affiliation from Gerald Chouinard.

Chouinard said that he had just completed the letter of affiliation and hoped to get a letter of endorsement later today.

Nikolich said that if the documents arrived prior to the end of the meeting, we would consider confirmation.

Motion is to confirm Apurva Mody as 802.22 Chair.

Moved by Lynch, seconded by Marks

Vote is 15/0/0, Mody is confirmed as 802.22 Chair.

WG/TAG officer confirmations

- 802.1
  - Chair: Tony Jeffree 52-0-0, unopposed
  - Vice Chair: 3 candidates
    - 1st round Paul Congdon 16?, Glenn Parsons 15?, John Messenger 7
    - 2nd round Paul 17, Glenn 17,
    - 3rd round Paul 16, Glenn 15
- 802.3
  - Chair: David Law 70-0, unopposed
  - Vice Chair: Wael Diab 75-0, unopposed
- 802.11
  - Chair: Bruce Kraemer 110/0/0, unopposed
  - 1st Vice Chair: Adrian Stephens 110/0/0, unopposed
  - 2nd Vice Chair: Jon Rosdahl 106/0/0, unopposed

WG/TAG officer confirmations

- 802.15
  - Chair: Bob Heile 61-0-1, unopposed
  - Vice Chair: Rick Alfvin 61-0-1, unopposed
  - Vice Chair: Pat Kinney 61-0-1, unopposed
- 802.16
  - Chair:
    - Roger Marks 160, Other 1
  - Vice Chair:
    - Jose Puthenkulam 88, Other 18
- 802.17
  - Chair: John Lemon 6-0-0, unopposed
  - Vice Chair: Michael Kelsen 6-0-0, unopposed

WG/TAG officer confirmations

- 802.18
  - Chair: Mike Lynch 5-0-1, unopposed
  - Vice Chair: Peter Murray 5-0-1, unopposed
- 802.19
  - Chair: Steve Shellhammer 19-0-0, unopposed
  - Vice Chair: Ivan Reede 19-0-1, unopposed
- 802.20
  - Chair: Mark Klerer 5-0-0, unopposed
  - Vice Chair: Radhakrishna Canchi 5-0-0, unopposed

WG/TAG officer confirmations

- 802.21
  - Chair:
    - Subir Das 16, Vivek Gupta 7, other 1
  - Vice Chair: Juan Carlos Zuniga 17, unopposed
- 802.22
  - Chair: Apurva Mody 12/0/1, unopposed
  - Vice Chair: Gerald Chouinard 12/0/0, unopposed

Nikolich stated that there was only one declared candidate for 802 Chair, Paul Nikolich.

Nikolich handed over the Chair to Sherman

Sherman asked if there was any discussion

Shellhammer asked how many years Nikolich had been involved.

Nikolich said 21 years.

Election result was 14/0/0, Nikolich is elected as 802 Chair.

Marks applauded.

802 EC Chair election

- Paul Nikolich
  - Approve:
  - Disapprove:
  - Abstain:

Gilb indicated that Geoff Thompson had not submitted a correct letter of endorsement as it was missing a declaration of experience and that he would act as an individual and a technical expert as described in the P&P.

Thompson was not in the room at that time.

Nikolich said that we will take this up later when Thompson returns to the room.

Jeffree asked what happens if Thompson is selected as 802.23 Chair, would he remain a member emeritus?

Nikolich said yes, but that we will discuss it later if it becomes an issue.

Nikolich suggested that we approve the Vice Chairs, Treasurer and Recording Secretary in one vote.

Lemon asked why we need all of the positions

Nikolich said that the volume of work justified the need for the positions.

Motion is to confirm Pat Thaler as 1st Vice Chair, Mat Sherman as 2nd Vice Chair, John Hawkins as Treasurer, and James Gilb as Recording Secretary

Moved by Jeffree, seconded by Shellhammer

Vote is 14/0/0, Thaler is confirmed as 1st Vice Chair, Mat Sherman is confirmed as 2nd Vice Chair, John Hawkins is confirmed as Treasurer, and James Gilb is confirmed as Recording Secretary.

Nikolich introduces Rosdahl as candidate for Executive Secretary

Shellhammer asks who is taller, Nikolich or Rosdahl

Rosdahl says that he is taller.

Question; what happens if Rosdahl needs to take over as 802.11 Chair? Rosdahl said that he would turn over 802.11 chair to the 2nd Vice Chair.

Motion is to confirm Jon Rosdahl as Executive Secretary

Moved by Kraemer, seconded by Gilb

Vote is 15/0/0, Rosdahl is confirmed as Executive Secretary

Motion is to confirm Everett O. (Buzz) Rigsbee as Meeting Manager Member Emeritus.

Moved by Lemon, seconded by Jeffree

Vote is 14/0/1, Rigsbee is confirmed as Meeting Manager Member Emeritus

Thompson has returned to the room and said that he is working on the letter and will have it soon.

Nikolich said that we will move the confirmation vote to just after the break.

Appointed EC officer confirmations

- 1st Vice Chair
  - Patricia Thaler
- 2nd Vice Chair
  - Matthew Sherman
- Treasurer
  - John Hawkins
- Recording Secretary
  - James Gilb
- Executive Secretary
  - Jon Rosdahl
- Member Emeritus
  - Buzz Rigsbee
  - Geoff Thompson

4.00 ME Endorse Glenn Parsons as nominee for RAC Chair Nikolich 5 02:06 PM

Motion is to endorse Glenn Parsons as nominee for RAC Chair.

Parsons spoke in support of his qualifications. No questions were asked.

Moved by Lemon and seconded by Hawkins

Vote is 15/0/0, motion passes

RAC Chair Candidate
802 EC Endorsement

- Glenn Parsons
  - Endorsed by former RAC chair (Jeffree) and 802 representatives to the RAC (Thompson and Chaplin)

4.01	**ME**	**Announcements from the Chair**	**Nikolich**	**5**	**02:10 PM**

Announcements were done first thing in the meeting.

Marks said that Tim Godfrey is not chair of the GRIDMAN study group.

5.00		**IEEE Standards Board and Sponsor Ballot Items**			
5.01	**ME**	**ECSG PAR for new standard for Emergency Services for Internet Protocol (IP) Based Citizen to Authority Communications to NesCom**	**Thompson**	**20**	**02:11 PM**

Thompson presented "ES ECSG Report to EC 3-18-2010.ppt"

Motion is that the 802 EC approve the 802.23 PAR as presubmitted (with the changes as presented 3/18/2010) for consideration as an approval item by NESCOM and the SASB at the March 2010 SASB Meeting Series.

Moved by Sherman, seconded by Rigsbee

Kraemer spoke about comments from 802.11 regarding the PAR.

Nikolich asked if is speaking for or against the motion.

Kraemer said that he views it positively.

Sherman asked that the motion reference a particular document, it is a friendly amendment. Motion now reads: that the 802 EC approve the 802.23 PAR (Mentor document number #24) as presubmitted (with the changes as presented 3/18/2010) for consideration as an approval item by NESCOM and the SASB at the March 2010 SASB Meeting Series (5 Criteria = Mentor doc # 23). The change to the PAR was to change "network layer" to "data link layer"

Marks also discussed concerns with the PAR.

Thaler said that there was an issue with a purpose statement

Thompson stated that he would add instructions that the standard would not have a purpose.

Shellhammer said he was concerned as well. There seemed to be a disconnect between two presenters, one from 802.11 and one from 802.16.

Shellhammer said that the member who spoke at the tutorial appeared to state that the work did not need to be done.

Thompson's interpretation of McCann is that they support it in 802.11, so no work needs to be done in that area. However, it does not address cross-802 issues.

McCann (Research in Motion) said that he presented a neutral position that 802.11 already provided for emergency services as the MAC and PHY layers.

Marks said that one sentence indicated that it required uniformity and that he felt it did not.

Thompson said that this is a philosophical issue and that he feels that upper layer interfaces should act in a consistent manner.

Gilb asked how many attended the meetings

Thompson said that 5-7 attended

Gilb said that he opposed the motion because there was not broad interest.

Myles (Cisco Systems) said that he was attending, but because he was concerned. His concern is that the SG failed to establish the requirements for 802 to support emergency services. They did not show experience in the regulations. The topic is important but that the SG did not understand the requirements and work out the problem.

Marks asked for the rules for PAR approval.

Sherman said that it is in clause 12, 12.2 LMSC approval, PAR posted 30 days prior (done), comment period (finished), response by 5 pm

Marks asked if there was an explicit vote count

Thompson said yes, 4/0/0

Law said it is in the sponsor P&P, majority of the sponsor members voting approve and disapprove.

Nikolich said that we will take the vote and then determine approval threshold.

Vote is 10/2/3, 15 voting members, motion passes

Emergency Services EC SG

Report to 802 EC

Geoff Thompson/Interdigital
Study Group Chair
(as appointed by 802 chair)

802 Executive Committee Friday Session
Orlando, FL USA
Friday, March 18, 2010

Emergency Services EC SG

Report to 802 EC, March 18, 2010

- This study group created at July '09 Plenary by 802 Executive Committee as an ECSG
- Successor to 802.21 Emergency Services Study Group PAR attempt, w/d in the face of significant criticism, July '09
- *(LMSC OM Clause 12, Procedure for PARs)*
  12.1 IEEE-SA Standards Board Approval
  Any standards activity whose aim is to produce a Standard, Recommended Practice, or Guide shall submit a PAR to the IEEE-SA Standards Board within six months of beginning work.

ES-ECSG Report to 802 EC, 3/18/10

- Meetings since SG creation
  - Waikailoa, HI USA (Wireless Interim), Sept., '09
  - Atlanta, GA USA (802 Plenary), Nov., '09
  - La Jolla, CA USA (co-loc 802.16), Jan., '10
  - Orlando, FL USA (802 Plenary), Mar., '10
- Next planned meeting
  - Geneva, Switzerland (co-loc .1/.3), May, '10

ES-ECSG Report to 802 EC, 3/18/10

- PAR and Five Criteria
  - Finalized and voted at January meeting
  - Distributed to 802 EC on Feb., 11, 2010
  - Pre-submitted to NESCOM, Feb., nn, 2010 (Per P. Niklolich authorization)
  - Feedback meeting and PAR/5C changes generated Wednesday of this week.
  - Updates posted to document server, pointers sent to EC.
- Tutorial given Monday, 7:30 – 9:00
  - Estimated attendance 80 – 100 people
  - Vigorous Q & A cut off by time constraint

ES-ECSG Report to 802 EC, 3/18/10

- PAR
  - Minor tweaks in response to comments
  - Heavily reworked “Scope”
    (See next slide)
- Meetings this week
  - Total attendance: 9
  - Peak attendance Monday: 7
  - Peak attendance Wednesday: 5

ES-ECSG Report to 802 EC, 3/18/10

New (reviised) Scope

This standard defines a media independent framework within IEEE 802 to provide consistent access and data that facilitate compliance to applicable civil authority requirements for communications systems that include IEEE 802 networks. This includes a network layer interface for a consistent view of IEEE 802 networks by IP (Internet Protocol) based citizen-to-authority emergency services capabilities from the Internet Engineering Task Force (IETF) Emergency Context Resolution with Internet Technologies (ECRIT). This standard specifies a layer 2 entity and associated behaviors with a uniform structure of management information for transferring data required by an emergency services request.

ES-ECSG Report to 802 EC, 3/18/10

MOTION:
(Fwd'd by SG, 4/0/0)

That the 802 EC approve the 802.23 PAR as presubmitted (with the changes as presented 3/18/2010) for consideration as an approval item by NESCOM and the SASB at the March 2010 SASB Meeting Series.

Moved by: Mat Sherman

Second: Name

Vote: App___ Neg___ Abs____

3/19/2010 2:?? PM PASS/FAIL

Law presented 802d3_0310_closing_EC.pdf, slides 3-4

Motion is the EC approves the P802.3bg PAR and Five Criteria and forwards the PAR to NesCom.

Moved by Law, seconded by Thaler

Vote is 7/0/0, motion passes.

IEEE P802.3bg PAR and Five Criteria

- Title
  - 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 (MAC) service interface and management parameters to support time synchronization protocols
- Draft PAR
  - http://www.ieee802.org/3/40GSMF/40GESMF_SG_PAR_0110.pdf
- Draft 5C
  - http://www.ieee802.org/3/40GSMF/40GESMF_SG_5C_responses_0110.pdf
- Changes from pre-circulated version
  - Unchanged from version previously circulated.

IEEE P802.3bg PAR and Five Criteria

- The EC approves the P802.3bg PAR and Five Criteria and forwards the PAR to NesCom.

  M: D Law S: ???

  Y: ??, N: ??, A: ??

  Working Group vote Y:46, N: 0, A: 0

  Working Group votes on approval of individual items:

Project Authorization Request:	Y: 44, N: 1, A: 0
Broad Market Potential criterion:	Y: 42, N: 0, A: 2
Compatibility criterion:	Y: 48, N: 0, A: 2
Distinct Identity criterion:	Y: 45, N: 0, A: 2
Technical Feasibility criterion:	Y: 44, N: 0, A: 2
Economic Feasibility criterion:	Y: 43, N: 0, A: 4

5.04 MI 802.3az energy efficient Ethernet forward to Sponsor ballot (conditional) Law 10 03:05 PM

Law presented 802d3_0310_closing_EC.pdf, slides 6-8

Motion is The LMSC Executive Committee grant Sponsor Ballot Conditional Approval for IEEE P802.3az.

Moved by Law, seconded by Thaler

Vote is 13/0/0, motion passes.

IEEE P802.3az Energy-efficient Ethernet Conditional to Sponsor ballot

- Item 1 - Date the ballot closed:
  - The 3rd Working Group recirculation ballot on IEEE P802.3az draft 2.3 Closed on 5th March 2010 at 11:59 PM AOE.
- Item 2 - Vote tally:

Comments: 79	3rd Recirculation Draft D2.3			Req %
	#	%	Status	
Abstain	21	14	PASS	< 30
Disapprove with comment	5	-	-	-
Disapprove without comment	0	-	-	-
Approve	120	97	PASS	≥ 75
Ballots returned	146	70	PASS	≥ 50
Voters	208	-	-	-

IEEE P802.3az Energy-efficient Ethernet Conditional to Sponsor ballot

- Item 3 - Comments that support the remaining disapprove votes and WG responses
  - 7 unresolved negative comments
  - See attached file 'IEEE802d3az_unsatisfied_comments.pdf'

- Item 4 - Schedule for recirculation ballot and resolution meeting
  - Estimated recirculation ballot open date March 23, 2010
  - Estimated recirculation ballot close date April 6, 2010
  - Proposed interim meeting date April 8, 2010
  - If needed:
    - Estimated recirculation ballot open date April 12, 2010
    - Estimated recirculation ballot close date April 27, 2010
    - Proposed interim meeting date May 24, 2010
  - We only expect to have one more recirculation

IEEE P802.3az Energy-efficient Ethernet Conditional to Sponsor ballot

- The LMSC Executive Committee grant Sponsor Ballot Conditional Approval for IEEE P802.3az

M: D Law, S: ????

Y: ??, N: ??, A: ??

Working Group vote:

Y: 54, N: 1, A: 2

Law presented 802d3_0310_closing_EC.pdf, slides 10-13

Motion is The LMSC Executive Committee grant RevCom submittal Conditional Approval for IEEE P802.3ba.

Moved by Law, seconded by Thaler

Vote is 13/0/0, motion passes.

Hu left the room.

IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Conditional to RevCom

- Item 1 - Date the ballot closed:
  - The 1st Sponsor recirculation ballot on IEEE P802.3ba draft D3.1 closed on 27th February 2010 at 11:59pm EST
- Item 2 - Vote tally:

Comments: 200	1st Recirculation Draft D3.1			Req %
	#	%	Status	
Abstain	6	5	PASS	< 30
Disapprove with comment	17	-	-	-
Disapprove without comment	0	-	-	-
Approve	97	85	PASS	≥ 75
Ballots returned	120	83	PASS	≥ 75
Voters	143	-	-	-

IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Conditional to RevCom

- Update in Disapprove votes
  - 17 Disapprove Votes
- At time of this report
  - 9 Voters have no unsatisfied comments
  - Emails from 5 voters received indicating they will vote “APPROVE” on next draft

IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Conditional to RevCom

- Item 3 - Comments that support the remaining disapprove votes and WG responses
  - 29 unresolved negative comments from 8 balloters
  - See attached file ‘IEEE802d3ba_unsatisfied_comments.pdf’
- Item 4 - Schedule for recirculation ballot and resolution meeting
  - 2nd Recirculation
    - Estimated recirculation ballot open date – April 1
    - Estimated recirculation ballot close date – April 16
    - Proposed interim meeting date – April 20
  - 3rd Recirculation (if necessary)
    - Estimated recirculation ballot open date – April 28
    - Estimated recirculation ballot close date – May 12
    - Proposed interim meeting date – May 21

IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Conditional to RevCom

- The LMSC Executive Committee grant RevCom submittal Conditional Approval for IEEE P802.3ba

  M: D Law, S: ????

  Y: ??, N: ??, A: ??

  Working Group vote:

  Y: 61, N: 0, A: 0

5.07 ME 802.11p wireless access in vehicular environments forward to RevCom (conditional) Kraemer 10 03:13 PM

Kraemer presented 11-10-0409-00-000p-p802-11p-report-to-the-ec.ppt

Motion is "Request the IEEE 802 Executive Committee for conditional approval to forward P802.11p D11.0 to RevCom."

Moved by Kraemer, seconded by Gilb

Vote is 14/0/0

P802.11p report to EC on request for conditional approval to proceed to RevCom

Authors: **Date:** 2010-03-16

Name	Affiliations	Address	Phone	email
Lee Armstrong	US DoT	132 Fomer Road Southampton, MA 01073 USA	+1 (617) 620-1701	LRA@tiac.net

Introduction

- **This document contains the report to the IEEE 802 Executive Committee in support of a request for conditional approval to send IEEE P802.11p to RevCom.**

IEEE 802 Sponsor Ballot Results – P802.11p

Draft	Opened	Closed	Days	Ballot Type	Pool	Approve		Disapprove			Abstain		Return	
D10.0	2/1/2010	2/16/2010	15	1st Recirc	164	120	96%	5 0	with w/o	4%	14	10%	139	85%
D9.0	10/23/2009	11/22/2009	30	New	164	114	93%	8 0	with w/o	7%	14	10%	136	83%

Key:

- "with" = "with comments"
- "w/o" = "without comments"

Comments by Ballot

Group	Draft	Sponsor Ballot	Not Required	Coordination	Satisfied	Known Unsatisfied	Assumed Unsatisfied	Grand Total
P802.11p	D10.0	1	8	0	13	0	0	21
P802.11p	D9.0	0	107	0	20	1	28	156
Grand Total			115	0	33	1	28	177

Key:

•SB0 = Initial sponsor ballot. SB1 = 1st recirculation ballot, etc.

•Coordination: comment supplied by a Mandatory coordination entity

•Not Required: comment indicated as not required to satisfy voter

•Satisfied: comment required to satisfy voter that is indicated as satisfied either by the voter indicating satisfaction with the specific comment, or by voting yes in a subsequent ballot

•Known Unsatisfied: a comment that is indicated to be "required" by the voter, and the voter is maintaining a "no" vote, and the voter has indicated they are unsatisfied with the comment resolution.

•Assumed Unsatisfied: comment not meeting any of the above criteria – i.e., a comment that is indicated to be "required" by the voter, and the voter is maintaining a "no" vote, and the voter has not responded when asked about their satisfaction with the comment resolution.

Mandatory coordination

Coordination Entity	Draft	Date	Status
IEEE-SA Editorial (MEC)	D7.0	Jun 09	"Meets all editorial requirements. "
Quantities, Units and Letter Symbols (SCC14)			Not required
Terms and Definitions (SCC10)			Not required
Registration Authority Committee (RAC)			Not required

Note

- **In subsequent slides, "Unsatisfied comments" includes both "Known Unsatisfied" and "Assumed Unsatisfied" comments.**

Unsatisfied Comments

Sponsor Ballot	A	P	D	U	S	Grand Total
0	1	2	25	0	0	28
1	0	0	0	0	0	0
Grand Total	1	2	25	0	0	28

The table shows the count of unsatisfied comments classified into:

•A – Accepted. The comment was accepted and the change indicated by the commenter was approved.

•P – Accepted in Principle. The comment was accepted in principle, but a different change to the one indicated by the commenter was approved.

•D – Disagree. The comment was declined and no change to address the comment was approved.

•U – Unresolvable.

•S – Out of Scope.

Unsatisfied comments by commenter

Commenter	A	P	D	U	S	Grand Total
Roy, Richard	1	2	25	0	0	28
Grand Total	1	2	25	0	0	28

Note: Mr. Roy did not vote in ballot #1, thus all of his comments from ballot #0 must be assumed to be unsatisfied. He has not responded to requests for clarification of his status. All other voters have indicated that they are satisfied with the comment resolutions from both ballots

Unsatisfied Comments by Topic

Topic	A	P	D	U	S	Grand Total
Clause 5 – General Description	1	0	3	0	0	4
Clause 7 – Frame formats	0	0	12	0	0	12
Clause 9 - MAC Sublayer	0	0	1	0	0	1
Clause 10 – Layer Management	0	0	1	0	0	1
Clause 11 - MLME	0	0	3	0	0	3
Annex J - Country information	0	2	1	0	0	3
Other	0	0	4	0	0	4
Grand Total	1	2	25	0	0	28

Unsatisfied comments

- **The composite of all unsatisfied comments and the resolutions approved by the comment resolution committee received during P802.11p sponsor ballot is attached.**
  - Double click on the icon to the right to open this.

- **A copy of this same data presented using MyBallot access database report format is attached.**
  - Double click on the embedded .pdf to the right to open this.

802.11 EC Motion – Conditional Approval to send P802.11p to RevCom

- **Request the IEEE 802 Executive Committee for conditional approval to forward P802.11p D11.0 to RevCom.**
- **P802.11p had a 96% approval on the last Recirculation Sponsor Ballot. There are 5 disapprove voters and 28 unsatisfied comments, all from a single voter.**
  - CRC vote on the Motion Passed: 14 y, 0 n, 1 a
- **Moved: Bruce Kraemer 2nd: <tbd>**
  - Yes No Abstain

5.09 ME 802.16n PAR amendment for Higher Reliability Networks to NesCom Marks 5 03:20 PM

Marks presented "80216gman-10_0018r2.pdf"

Motion is forward the draft 802.16n PAR (IEEE 802.16gman-10/0018r2) to NesCom.

Moved by Marks, seconded by Gupta

Kraemer noted that while he agreed with the changes, the changes had not been made prior to Wednesday night. The last time this happened, an EC member objected and wanted to know how Marks would deal with it.

Law said that his understanding is that we have a motion for the PAR that was presented on time with changes agreed to by the EC members.

Kraemer agreed with this procedure.

Motion now reads: To fortward the draft 802.16n PAR (IEEE 802.16gman-10/0018r1) subject to the changes reflected in IEEE 802.16gman-10/0018r2 to NesCom

Moved by Marks, seconded by Kraemer

Vote is 13/0/0, motion passes

Gilb asked Nikolich to clarify if this is the process the EC would use going forward for PARs that had been changed after the Wednesday deadline.

Nikolich said that this is the process we should follow in the future for PARs that have modifications after the Wednesday night deadline.

Project	**IEEE 802.16 Broadband Wireless Access Working Group <**http://ieee802.org/16**>**
Title	**Draft PAR and Five Criteria from Greater Reliability In Disrupted Metropolitan Area Networks (GRIDMAN) Study Group**
Date Submitted	**18 March 2010**

Source(s)	Matthew Sherman BAE Systems Chair 802.16 GRIDMAN SG	Voice: 973-633-6344 E-mail: matthew.sherman@baesystems.com *<http://standards.ieee.org/faqs/affiliationFAQ.html>

Abstract	The attached DRAFT PAR and five criteria is offered by the GRIDMAN study group for consideration by the IEEE 802.16 WG and IEEE 802 Executive Committee.

Purpose	This document is supporting the submission of the PAR to the IEEE 802 Executive Committee.
Notice	*This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups*. It represents only the views of the participants listed in the "Source(s)" field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein.
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.
Patent Policy	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: <http://standards.ieee.org/guides/bylaws/sect6-7.html#6> and <http://standards.ieee.org/guides/opman/sect6.html#6.3>. Further information is located at <http://standards.ieee.org/board/pat/pat-material.html> and <http://standards.ieee.org/board/pat>.

PAR FORM (DRAFT)

myProject™ >> Review PAR

Submitter Email: shermanmjs@ieee.org
Type of Project: Amendment to IEEE Standard 802.16-2009

1.1 Project Number: P802.16n
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Local and metropolitan area networks Part 16: Air Interface for Broadband Wireless Access Systems- Amendment: Higher Reliability Networks

---

3.1 Working Group: Broadband Wireless Access Working Group (C/LM/WG802.16)
Contact Information for Working Group Chair
Name: Roger Marks
Email Address: r.b.marks@ieee.org
Phone: 1 619 393 1913
Contact Information for Working Group Vice-Chair
None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Local and Metropolitan Area Networks (C/LM)
Contact Information for Sponsor Chair
Name: Paul Nikolich
Email Address: p.nikolich@ieee.org
Phone: 857.205.0050
Contact Information for Standards Representative
None

4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 01/2012
4.3 Projected Completion Date for Submittal to RevCom: 03/2013

5.1 Approximate number of people expected to be actively involved in the development of this project: 20
5.2 Scope: This amendment specifies protocol enhancements to the IEEE 802.16 MAC for enabling increased robustness and alternate radio path establishment in degraded network conditions. Limited OFDMA PHY extensions are included for enabling operation with radio path redundancy and direct communication between subscriber stations. Also mobile base stations and mobile relay stations are supported. Support for enabling application specific specialized security suites is also provided.

5.3 Is the completion of this standard dependent upon the completion of another standard: No
5.4 Purpose: This amendment is intended to address higher reliability requirements that are not supported by IEEE Std. 802.16 presently.

5.5 Need for the Project: Work undertaken within Land Mobile Radio, Aeronautic, Maritime and Government bodies, such as the TETRA Association, Eurocae, International Maritime Organization, and the US Department of Homeland Security and Federal Aviation Administration, regarding the deployment of IEEE 802.16 technology in Public Safety, Avionics, Airport Surface Communication, Maritime Safety, and Surveillance applications, has raised specific issues which may be addressed within IEEE 802.16. Recently introduced legislation in U.S. and other countries encourages and funds a wide range of activities in communications technologies supporting Smart Grid applications such as monitoring and control of generation, transmission, distribution and consumption of energy resources. This project is expected to support communication with higher reliability that may be used in some Smart Grid applications.
High data rates and long range are required for some of these applications. 802.16 technology is uniquely suitable for these purposes, due to its inherent longer range and high data rate capability compared to other wireless technologies.
The benefit of this particular project is to facilitate applications for those new markets. In particular, the new mechanisms will be advantageous for IEEE 802.16 when targeted to those applications.

5.6 Stakeholders for the Standard: Semiconductor manufacturers, network equipment manufacturers, mobile and wireless device manufacturers, network operators, utility companies, government agencies (e.g. US Department of Homeland Security, Department of Energy and the Federal Aviation Administration), non-government agencies with equivalent interest and the public safety and energy industries.

Intellectual Property
6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No
6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

---

7.1 Are there other standards or projects with a similar scope?: No
7.2 International Activities
a. Adoption
Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: Do Not Know
Organization:
Technical Committee Name:
Technical Committee Number:
Contact Name:

Phone:
Email:

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: Do Not Know

Organization:
Technical Committee Name:
Technical Committee Number:
Contact Name:
Phone:
Email:

8.1 Additional Explanatory Notes (Item Number and Explanation):

In Section 5.2 the following definitions and notes apply:

Degraded Network: The failure of one or more 802.16 network infrastructure nodes or network connectivity.
Robustness: The capability of the network to withstand and automatically recover from degradation to provide the required availability to support mission critical applications (essential to the core function of society and the economy). E.g. the ability to recover from a single point of failure.
Mobile Base Station: A base station which is capable of maintaining service while moving.
Radio Path Redundancy: The ability to provide alternative paths between base stations, relay stations, and subscriber stations.

Operation in licensed, unlicensed and lightly licensed spectrum bands below 6 GHz with means and mechanisms to coexist with other radio access technologies (RATs) is supported.

FIVE CRITERIA

Broad Market Potential

A standards project authorized by IEEE 802 shall have a broad market potential. Specifically, it shall have the potential for:
a) Broad sets of applicability.
b) Multiple vendors and numerous users.
c) Balanced costs (LAN versus attached stations).

a) The amendment will be applicable to various classes of applications, including Land Mobile Radio (LMR), as well as Surveillance applications, Airport/Maritime Communication, Disaster Responder and Replacement. In those applications, a general demand for more sophisticated services (e.g. video streaming and video conference) has raised a need for a technology enhancement, while maintaining high requirements for resilience and reliability.
The amendment will enable real time monitoring and control of distribution and consumption of energy and other resources.
Support for these applications, within the IEEE 802.16 family of standards, will enhance the adoption of this family of standards in those applications by providing the users with additional capabilities.

b) The various companies and organizations participating in the IEEE 802.16 GRIDMAN Study Group and previous NRR WG Ad Hoc Committee demonstrate the broad interest in the proposed concept. Indeed the Committee has brought together semiconductor and equipment manufacturers, system integrators, research organizations and end users.
Furthermore the target applications are associated with a wide range of users such as public safety agencies (e.g. Police, firefighters and Emergency Medical Services), industrial and construction companies, utilities and transport (e.g. bus, rail, airport, harbor) providers and government organizations.

c) Incremental cost of the proposed amendment will be balanced between the network nodes based on their relative inherent cost and network prevalence.

Compatibility

IEEE 802 defines a family of standards. All standards shall be in conformance with the IEEE 802.1 Architecture, Management, and Interworking documents as follows: 802 Overview and Architecture, 802.1D, 802.1Q, and parts of 802.1f. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with 802.
Each standard in the IEEE 802 family of standards shall include a definition of managed objects which are compatible with systems management standards.

This amendment will be in conformance with IEEE 802.1 architecture, management, and inter-networking and be backward compatible with all relevant IEEE 802.16 specifications.

Distinct Identity

Each IEEE 802 standard shall have a distinct identity. To achieve this, each authorized project shall be:
a) Substantially different from other IEEE 802 standards.
b) One unique solution per problem (not two solutions to a problem).
c) Easy for the document reader to select the relevant specification.

a) There are no other standards in the IEEE 802 that provide reliable communication between stations, that may be either fixed or mobile, over a metropolitan area network (MAN), even when infrastructure is not present or partially available. Current projects in 802.16 may not offer both mobile and resilient operation far from any infrastructure.
There is a limited potential for overlap with p802.15.4g and 802.11 ("smart grid"); however 802.16 provides distinct advantages over those due to its inherent higher data rate and range.

b) This amendment will address a unique solution to the topic presented above.

c) The supplementary functions specified in this amendment will be clearly distinguishable from the existing IEEE 802.16 specifications.

Technical Feasibility

For a project to be authorized, it shall be able to show its technical feasibility. At a minimum, the proposed project shall show:
a) Demonstrated system feasibility.
b) Proven technology, reasonable testing.
c) Confidence in reliability.

a) The IEEE 802.16 GRIDMAN Study Group and prior Network Robustness and Reliability (NRR) WG Ad Hoc Committee have reviewed several presentations indicating that the proposed functions are technically feasible. The technical reference documents and in particular the NRR report (802.16gman-10/0019r1) are available on the link: http://ieee802.org/16/sg/gridman/index.html#10_0019. Moreover there are examples of prototypes that have demonstrated that the goal of the project is achievable.

b) The project will be based on the 802.16 technology, which is mature and proven to work appropriately.

c) During the development of this amendment, the reliability will be addressed with significant attention since the resulting systems will have to be used in critical missions and rough environments.

Coexistence of 802 wireless standards specifying devices for unlicensed operation

The working group will create a CA document as part of the WG balloting process.

Economic Feasibility

For a project to be authorized, it shall be able to show economic feasibility (so far as can reasonably be estimated), for its intended applications. At a minimum, the proposed project shall show:
a) Known cost factors, reliable data.
b) Reasonable cost for performance.
c) Consideration of installation costs.

a) It is predicted that the cost of the resulting systems will be close to the cost of existing 802.16 technology, taking into account that the equipment and deployment costs of 802.16 systems are well known. The equipment cost may increase slightly due to the additional capabilities, but having no PHY changes will limit incremental cost of the amendment. In addition, the added network resilience can eliminate the need for redundant infrastructure with its inherent cost.

b) Based on the end users expectations, the additional capabilities are worth the slight increase in cost of the equipment.

c) The ability to operate with degraded infrastructure (e.g. limited backhaul capability or failing network nodes) will result in a significant reduction of installation costs.

5.10 MI 802.16m IMT-Advanced forward to Sponsor ballot (conditional) Marks 10 03:30 PM

Marks presented "80216-10_0030r1.pdf"

Marks requested a 10 day EC ballot to allow conditional approval for 802.16m following the May interim meeting.

Nikolich said that this is not a motion, just an FYI

Heile spoke in favor of it.

Jeffree spoke in favor of it.

No member spoke against the request.

P802.16m to RevCom: Conditional Approval Status

19 March 2010

Rules

- LMSC OM Clause 14: Motions requesting conditional approval to forward where the prior ballot has closed shall be accompanied by:
  - Date the ballot closed
  - Vote tally including Approve, Disapprove and Abstain votes
  - Comments that support the remaining disapprove votes and Working Group responses.
  - Schedule for confirmation ballot and resolution meeting.

Ballot Status

Stage	Open	Close
WG Letter Ballot #30	2009-07-30	2009-08-20
WG Letter Ballot Recirc #30a	2009-10-18	2009-11-06
WG Letter Ballot Recirc #30b	2009-12-09	2009-12-21
WG Letter Ballot #31	2010-02-03	2010-03-05

Vote tally including Approve, Disapprove and Abstain votes

- After WG Letter Ballot #31 comment resolution (as of 18 March):
  - Approve: 260
  - Disapprove: 22
  - Abstain: 4
  - Return ratio: 78%
  - Approve ratio: 89%

Comments that support the remaining disapprove votes

- 253 Disapprove comment submitted
- 142 explicitly satisfied (as of 18 March)
- 111 unresolved (as of 18 March)

Critical Schedule Issues

- Critical need to complete draft for use in ITU-R IMT-Advanced consideration
- ITU-R IMT-Advanced deadline: 1 March 2011

Schedule for Confirmation Ballot and Resolution Meeting

- Working Group (2010-03-18) approved comment resolutions for completion of P802.16m/D5
- WG Letter Ballot Recirc #31a: April 2-30
  - Comment resolution at Session #67 (10-13 May)
- EC Email Ballot on Conditional Approval
  - 14-24 May
- WG Letter Ballot Recirc #31b: 25 May-9 June
- Sponsor Ballot: 11 June – 11 July
  - Comment resolution at Session #67 (12-15 July)

802.16 WG Motion

18 March 2010

- *To authorize the 802.16 WG Chair to request the IEEE 802 EC Chair to schedule a ten day EC letter ballot, following IEEE 802.16 Session # 67 (10-13 May 2010), for conditional approval to forward P802.16m for Sponsor ballot.*

Approve: 58 Dis: 0 Abstain: 1

802 LMSC Motion

- To authorize conditional approval to forward P802.16m for Sponsor Ballot

Made by: Marks

Seconded:

Vote:

Approve: Dis: Abstain:

5.11 ME 802.16h (license exempt) forward to RevCom (conditional) Marks 10 03:35 PM

Marks presented "80216-10_0026r1.pdf"

Motion is to grant conditional approval to forward the P802.16h draft to RevCom

Moved by Marks, seconded by Rigsbee

Vote is 14/0/0, motion passes

P802.16h to RevCom: Conditional Approval

19 March 2010

Rules

- LMSC OM Clause 14: Motions requesting conditional approval to forward where the prior ballot has closed shall be accompanied by:
  - Date the ballot closed
  - Vote tally including Approve, Disapprove and Abstain votes
  - Comments that support the remaining disapprove votes and Working Group responses.
  - Schedule for confirmation ballot and resolution meeting.

Date the Ballot closed: 7 February 2010

Stage	Open	Close
Sponsor Ballot	06-Aug-08	05-Sep-08
Sponsor Ballot Recirc #1	04-Dec-08	25-Dec-08
Sponsor Ballot Recirc #2	10-Apr-09	25-Apr-09
Sponsor Ballot Recirc #3	10-Aug-09	25-Aug-09
Sponsor Ballot Recirc #4	8-Sep-2009	20-Sep-09
Sponsor Ballot Recirc #5	21-Oct-2009	5-Nov-2009
Sponsor Ballot Recirc #6	16-Dec-09	05-Jan-10
Sponsor Ballot Recirc #7	26-Jan-10	07-Feb-10

Vote tally including Approve, Disapprove and Abstain votes

- After Recirc. 7:
  - Approve: 104
  - Disapprove: 6
  - Abstain: 7
  - Return ratio: 86.5%
  - Approve ratio: 94.5%

Comments that support the remaining disapprove votes

	Circ	Recirc 1	Recirc 2	Recirc 3	Recirc 4	Recirc 5	Recirc 6	Recirc 7
	D7a	D8	D9	D10	D11	D12	D13	D14
Chindapol, Aik	0	0	4	0	0	0	0	0
Labs, Jonathan	0	0	0	0	0	0	0	0
Murias, Ronald	0	0	0	0	0	0	0	0
Myles, Andrew	0	0	0	0	0	0	0	0
Piggin, Paul	0	1	0	0	0	0	0	0
Wang, Lei	0	0	0	0	0	0	0	0

Status of Disapprove Votes

- Chindapol: No response; emails bouncing
- Labs: Email intent to vote Approve (15 Jan 2010) after last comments
- Murias: Email intent to vote Approve (18 March 2010)
- Myles: Email of satisfaction with resolution of comment (18 Nov 2009)
- Piggin: No response since 18 Aug 2009
- Wang: Intent to vote Approve recorded in minutes (18 March 2010)

Comment B46 by Aik Chindapol

Type Technical Part of Dis ☒ Satisfied ☐ Page 20 Line 25 Fig/Table# Subclause 6.3.2.3.64

- **Comment**
  - I could not find any comment in the previous resolution of Sponsor Ballot's recirculation http://ieee802.org/16/docs/08/80216-08_065r5.pdf that suggests addition of this new sub-clause on coexistence Forward Acknowledge Message. It looks like this is out of scope of the recirculation. Technically, the use of CX-FWG-ACK is redundant and causes additional delay. The exchange sequence of CX-FWD-REQ and CX-FWD-RSP is consistent with many other management messages involving REQ and RSP messages. In addition, management messages are typically transmitted with a robust MCS and the ACK message does not add additional value in this case.
- **Suggested remedy**
  - Delete sub-clause 6.3.2.3.64 and relevant statements referring to this sub-clause.
- **Group decision**
  - Principle
  - Agree that applying this messages to all the responses will introduce not necessary delay. Instruction to Editor: insert at page 17, line 25, the following text: "This message will be transmitted after receiving one of the CX-FWD-RSP messages with the Action Code as described at 15.5.3.4, 15.5.3.6, 15.5.3.9, 15.5.3.17, 15.5.3.19, 15.5.3.21, 15.5.3.23, 15.5.3.25, 15.5.3.27, 15.5.3.29, 15.5.3.31."
- **Reason for group decision**
  - 1. The comment was introduced and accepted in the WG data-base IEEE 802.16-09/0012, as response to the additional comments from the WG;
  - 2. Technically the message is necessary because some of the Action Codes of the CX-FWD-RSP may indicate a choice or a different behaviour from the requested one. This is the case of the Action Codes described in 15.5.3.4, 15.5.3.6, 15.5.3.9, 15.5.3.17, 15.5.3.19, 15.5.3.21, 15.5.3.23, 15.5.3.25, 15.5.3.27, 15.5.3.29, 15.5.3.31.
  - 3. The resolution addresses the technical need but in a different way, therefore was marked as "principle".

Comment B47 by Aik Chindapol

Type Technical Part of Dis ☒ Satisfied ☐ Page 31 Line 48 Fig/Table# Subclause 6.3.7.5.3

- **Comment**
  - I do not agree with this change (changing the definition of the MAP relevance for the allocation start time) as implemented in D9. There should not be any ambiguity regarding the MAP relevance. The text in D9 changes the term "shall" to "should" and implies that the MAP relevance for the allocation start time is no longer normative. It causes confusion to the terminals and may cause the terminals to miss the MAP messages.
- **Suggested remedy**
  - Change the term "should" back to "shall "
- **Group decision**
  - Disagree
  - See the resolution and its reason for comment B58. Instruction to Editor: Add on page 23 after Allocation End time <8*Tf" the following sentence: "The MAP relevance supported by a SS/MS is indicated in SBC-REQ/RSP messages".
- **Reason for group decision**
  - 1. The use of word "should" implies a recommendation;
  - 2. There is no confusion, as one of the bits in the SBC-REQ/RSP (see 11.8) idicate which MAP relevance is supported by a device;
  - 3. The text at 6.3.2.3.23 and 6.3.2.3.24 indicate the proper TLVs to be used; 4. Changing to "shall" will make 802.16h incompatible with the existing devices.

Comment B48 by Aik Chindapol

Type Technical Part of Dis ☒ Satisfied ☐ Page 33 Line 13 Fig/Table# Subclause 6.4.1.2

- **Comment**
  - I do not agree with this change (deletion of downlink-listen-before-talk) as implemented in D9. When co-existing with non-SSU, non-802.16 systems, the downlink-listen-before-talk mechanism needs to be in place in order to avoid collisions.
- **Suggested remedy**
  - Re-instate the last sentence (line 13-15) and sub-clause 6.4.1.4.5.
- **Group decision**
  - Disagree
  - See the resolution and its reason for comment B58. Instruction to Editor: Add on page 23 after Allocation End time <8*Tf" the following sentence: "The MAP relevance supported by a SS/MS is indicated in SBC-REQ/RSP messages".
- **Reason for group decision:**
  - 1. The use of word "should" implies a recommendation;
  - 2. There is no confusion, as one of the bits in the SBC-REQ/RSP (see 11.8) indicate which MAP relevance is supported by a device;
  - 3. The text at 6.3.2.3.23 and 6.3.2.3.24 indicate the proper TLVs to be used; 4. Changing to "shall" will make 802.16h incompatible with the existing devices.

Comment B52 by Aik Chindapol

Type Technical Part of Dis ☒ Satisfied ☐ Page 72 Line 15 Fig/Table# Subclause 11.3

- **Comment**
  - I do not agree with this change (adding the use of IP address for inter-network coordination) as implemented in D9. The use of the BS's IP address to coordinate interference cannot be implemented in its current form. It is not clear what this address should be (i.e., proxy). Besides Figure 402 (page 120), there is no normative text anywhere describing how to specify the IP address or how the mechanism actually works In addition, the IP address may be local (unlike BSID which is globally unique) and the mechanism then will not work with another system that belongs to another local IP address.
- **Suggested remedy**
  - Delete entries related to the use of IP address for interference coordination in Table 612b (BS_NURBC TLV), sub-clause 11.1.13 and modify Fig 402 to remove IP address.
- **Group Decision**
  - Principle
  - Replace "BS IP Address" with "Network address of Source BS". Replace "IPv4" with "for example "IPv4". Replace "IPv6" with "for example IPv6“
- **Reason for group decision**
  - The change is editorial only, no new text was added: the tables which were previously on page 121 of the same document and were moved to page 72

Comment A9 by Paul Piggin

Type Technical Part of Dis ☒ Satisfied ☐ Page 101 Line 49 Fig/Table# Subclause 15.4

- **Comment**
  - Resolution of Comment 577 in Sponsor Ballot database 802.16-08/047r4 modified section 15.4 together with other sections by means of contribution IEEE C8021.16h-08/042. Furthermore resolution to Comment 696 consolidated section 6.4.1.3.4 by means of contribution IEEE C8021.16h-08/043. The motivation for these comments and subsequent resolutions was centered on PAR scope issues related to coexistence with systems other than 802.16. The 802.16h amendment still contains features and references pertaining to coexistence with systems other than 802.16. Comment 577 has therefore not been completely addressed. Using the argument that there is an implicit assumption that the amendment needs to coexist with other systems is not valid; in this case the amendment is clearly targeting inappropriate band. The amendment IEEE P802.16h/D8 contains 39 references to 'bursty systems'. 'Bursty systems‘ within the sense of the amendment are defined and exemplified by the term Wireless LANs. Furthermore there are 4 references to '802.11'. Coexistence with these or other systems is out of scope and therefore any specification should be removed. Specification of coexistence with 'bursty systems' is focused in section 15.4.1 and its sub sections specifically 15.4.1.4.1, and uses the feature name of 'CX-CBP'. Section 15.4.1.4 makes specific mention of coexistence with systems other than 802.16 systems.
- **Suggested remedy**
  - Delete section 15.4.1 and its subsections to remove specification of coexistence with 'bursty systems'. Remove other coexistence features related to coexistence with systems other than 802.16. Remove all references to 'bursty systems' throughout the draft and align the remaining specification accordingly. Remove all references to explicit coexistence with '802.11' systems throughout the draft and align the remaining specification accordingly. In light of these far reaching and extensive changes the document may have to be sent back to the Working Group for redrafting.

Comment A9 by Paul Piggin – cont.

- **Group decision**
  - Disagree
- **Reason for group decision**
  - 1. The group disagrees that the coexistence with systems, like 802.11, is out of the PAR scope. We bring as argument the ITU-R allocations in the document RR-2008 Vol.1, where the systems providing MOBILE services are included in primary services in 2.4GHz and 5GHz. The coexistence with these systems is within the PAR scope “to facilitate the coexistence of such systems with primary users.”.
  - 2. The group disagrees with the proposed solution to comment A9, which targets to delete the clause 15.4.1, including the basic 802.16h coexistence approach between 802.16-based systems, based on the Coexistence Frame. On this approach resides the Coexistence between 802.16 based-systems, Coexistence Control Channel, Master Frame optimization, Token protocol, Message relaying, etc.
  - 3. The group agrees that the word "bursty" should not be extensively used, and in many comments addressing the same issue we have deleted many appearances of this word.

Schedule for Confirmation Ballot and Resolution Meeting

- Working Group (2010-03-18) approved comment resolutions for completion of P802.16h/D15
- Recirculation 8 of P802.16h/D15:
  - Open on March 24, close on April 8
    - If successful, send draft to RevCom
    - If not, resolve comments by a Ballot Resolution Committee and Recirculate between April 19 and May 3
      - If successful, send draft to RevCom
      - If not, resolve comments at 802.16 Session #67 (10-13 May)

802 LMSC Motion

- To authorize conditional approval to forward P802.16h to RevCom

Made by: Marks

Seconded:

Vote:

Approve: Dis: Abstain:

5.12	**ME***	**802.16.2 reaffirmation forward to RevCom**	**Marks**	**5**	

Approved as part of the consent agenda

5.15	**MI**	**802.20b bridging forward to Sponsor Ballot**	**Klerer**	**5**	**03:41 PM**

Upton presented "EC Closing Slideset-2010-03-18.ppt" slides 3-5

Motion is that the 802 EC approve progressing 802.20b Draft 1.0 to Sponsor ballot.

Moved by Shellhammer, seconded by Jeffree

Vote is12/0/1, motion passes

Motion to Forward 802.20b to Sponsor Ballot

WG Letter Ballot Results (802.20b Draft 1.0)

- The return rate, based on 8 voters, is 75%
- YES – 6 (100%)
- NO – 0 (0%)
- Abstain - 0 (0%)
- Number of Comments: 0

Motion for Progression of 802.20b

- Move that the 802 EC approve progressing 802.20b Draft 1.0 to Sponsor ballot.
- Moved: S. Shellhammer
- Second: T. Jeffree

- WG March Plenary 802.20 vote: 4/0/0

Lemon indicated that this should be ME rather than MI.

Upton presented "EC Closing Slideset-2010-03-18.ppt", slides 6-8

Motion is that approval be granted to forward Draft 2.0 of P802.20a to RevCom.

Moved by Shellhammer, seconded by Jeffree

Vote is 13/0/0, motion passes

Motion to Forward 802.20a to RevCom

802.20a Sponsor Ballot Results

- The return rate, based on 52 voters in pool, is 80% (42 ballots)
- Approve – 40 (100%)
- Disapprove with comments – 0 (0%)
- Disapprove without comments – 0 (0%)
- Abstain - 2 (4%)
- Number of Comments: 0

Approval to forward 802.20a to RevCom

- Move that approval be granted to forward Draft 2.0 of P802.20a to RevCom.
  - Mover: Shellhammer
  - Second: Jeffree

  - WG March Plenary 802.20 vote: 4/0/0

    (Chair not voting, 8 potential voters)

5.18 ME 802.1AXbk PAR amendment for protocol addressing to NesCom Jeffree 5 03:47 PM

Jeffree presented "2010-03-exec-motions.pdf", page 2

Motion is 802.1 requests EC approval to forward the draft PAR for 802.1AXbk Link Aggregation Amendment: Protocol Addressing to NesCom. The PAR text and 5C text are: http://www.ieee802.org/1/files/public/docs2010/new-messenger-axbk-linkagg-addressing-draft-par-0110-v03.pdfhttp://www.ieee802.org/1/files/public/docs2010/new-messenger-axbk-draft-5cs-0110-v03.doc.

Moved by Jeffree, seconded by Thaler

Vote is 12/0/0, motion passes

Motion

- 802.1 requests EC approval to forward the draft PAR for 802.1AXbk Link Aggregation Amendment: Protocol Addressing to NesCom. The PAR text and 5C text are: http://www.ieee802.org/1/files/public/docs2010/new-messenger-axbk-linkagg-addressing-draft-par-0110-v03.pdf

  http://www.ieee802.org/1/files/public/docs2010/new-messenger-axbk-draft-5cs-0110-v03.doc

- Proposed: Messenger Second: mack-crane
- For: 25 Against: 0 Abstain: 2

- EC proposed: Jeffree Second: XXX
- For: XX Against: XX Abstain: XX

5.19 ME 802.1Qau submit amendment for congestion notification to RevCom Jeffree 5 03:48 PM

Jeffree presented "2010-03-exec-motions.pdf", pages 5-6

Motion is 802.1 request that the EC approve forwarding 802.1Qau to RevCom.

Moved by Jeffree, seconded by Thaler

Vote is 12/0/0, motion passes

MOTION

- 802.1 request that the EC approve forwarding 802.1Qau to RevCom.
  - Sponsor ballot results Y: 64, N: 0, Abs: 4
- Proposed: Thaler
- Second: Gray
  - For: 27
  - Against: 0
  - Abstain: 0

- EC proposed: Jeffree Second:

Supporting material: P802.1Qau

- Sponsor recirc closed 7 Jan 2010
- Sponsor ballot results Y: 64, N: 0, Abs: 4
- No outstanding comments
- No changes to the draft
- Already pre-submitted

5.20 ME 802.1Qat PAR amendment for stream reservation protocol to NesCom Jeffree 5 03:50 PM

No motion, this is a mistake and should not be on the agenda.

5.21 ME Approve interpretation response on 802.1AX Jeffree 5 03:53 PM

Jeffree presented "2010-03-exec-motions.pdf", page 1

Motion is 802.1 approves the response to the interpretation request on Link Aggregation.

Moved by Jeffree, seconded by Thaler

Vote is 12/0/0, motion passes

Motion

- 802.1 approves the response to the interpretation request on Link Aggregation.
- text as presented:

http://www.ieee802.org/1/files/public/docs2010/ax-interp-request-802-1ax-2008-0110-BMC-proposed-response-0310-v01.pdf

- Proposed: Mack-Crane Second: Messenger
- For: 26 Against: 0 Abstain: 1

- EC proposed: Jeffree Second:

5.22 ME Approve withdrawal of P802.1H Revision PAR to Nescom Jeffree 5 03:55 PM

Jeffree presented "2010-03-exec-motions.pdf", page 3

Motion is 802.1 requests EC approval to withdraw the P802.1H Revision PAR.

Moved by Jeffree, seconded by Thaler

Vote is 13/0/0, motion passes

Motion

- 802.1 requests EC approval to withdraw the P802.1H Revision PAR

- Proposed: Messenger Second: Seaman
- For: 24 Against: 0 Abstain: 2

- EC proposed: Jeffree Second: XXX
- For: XX Against: XX Abstain: XX

5.23 ME Approve initiation of reaffirmation ballot for 802.1D Jeffree 5 03:58 PM

Jeffree presented "2010-03-exec-motions.pdf", page 4

Motion is 802.1 requests EC approval to initiate a reaffirmation Sponsor ballot for IEEE Std 802.1D.

Moved by Jeffree, seconded by Thaler

Vote is 13/0/0, motion passes

Motion

- 802.1 requests EC approval to initiate a reaffirmation Sponsor ballot for IEEE Std 802.1D

- Proposed: Messenger Second: Seaman
- For: 26 Against: 0 Abstain: 3

- EC proposed: Jeffree Second: XXX
- For: XX Against: XX Abstain: XX

5.24 MI 802.1AS to Sponsor ballot Jeffree 5 04:00 PM

Jeffree presented "2010-03-exec-motions.pdf", pages 7-8

Motion is 802.1 requests approval of the EC to forward P802.1AS to Sponsor ballot

Moved by Jeffree, seconded by Thaler

Vote is 13/0/0, motion passes

MOTION

- 802.1 requests approval of the EC to forward P802.1AS to Sponsor ballot.
- Proposed: garner Second: fuller
- For: 24 Against: 0 Abstain: 2

- EC proposed: Jeffree Second:

Supporting material: P802.1AS

- WG recirc closed 9 Mar 2010
- WG ballot results Y: 25, N: 1, Abs: 39
- One outstanding No voter (Yueha Wei) who did not respond on the recirc despite considerable efforts to determine which of her comments are unresolved. Comments from Yueha Wei:

http://www.ieee802.org/1/files/public/Exec_files/802-1AS-d6-6-comments-yueha-wei.pdf

- Some editorial changes needed that will be forwarded to Sponsor ballot in cover letter
- No changes to the draft other than the insertion of registered numbers

5.25 MI 802.1Qbb to Sponsor ballot (conditional) Jeffree 10 04:02 PM

Jeffree presented "2010-03-exec-motions.pdf", pages 9-13

Motion is 802.1 requests conditional approval of the EC to forward P802.1Qbb to Sponsor ballot.

Moved by Jeffree, seconded by Thaler

Vote is 13/0/0, motion passes

MOTION

- 802.1 requests conditional approval of the EC to forward P802.1Qbb to Sponsor ballot.
- Proposed: Thaler Second: Gray
- For: 19 Against: 0 Abstain: 2

- EC proposed: Jeffree Second:

Supporting material: P802.1Qbb

- WG recirc closed 5 Mar 2010
- WG ballot results Y: 25, N: 1, Abs: 30
  - Recirculation in March/April timeframe for minor changes to satisfy one outstanding disapprove
  - Comment resolution via telecon April 12 at 9 AM PDT
  - Disapprove comments are in the next 3 slides:

PFC Statistics

- *Cl* **12** *SC* **12.18** *P* **9** *L* **11** # 15
- It would be more informative to know the number of PFCRequestsSent and PFCIndicationsReceived per priority.
- *SuggestedRemedy*
- Define PFCRequestsSent and PFCIndicationsReceived to be per priority. Modify the MIB accordingly.
- REJECT.
- See comment #12
- Having the statistics per priority is not so useful because many implementations always set the e[n] bits to one and just use the time value to pause or unpause a priority.

PFC response time at 10 Gig

- *Comment Type* **TR**
- The PFC response time definition is still not satisfactory. The relaxation of the constraint to 12 pause quanta from 8 for 10Gb/s may result in unusable buffering requirements for implementations.
- *SuggestedRemedy*
- Change the PFC response time for 10Gb/s to 8 pause quanta
- REJECT.
- The group decided to keep the delay as is.
  - See http://www.ieee802.org/1/files/public/docs2010/bb-lakshmikantha-PFCResponseTime.pdf

PFC response time above 10 Gig

- *Comment Type* **TR**
- The PFC response time should take into account the speed (i.e. 10, 40, 100 Gb/s). However, picking either an absolute time or absolute pause quanta for all speeds shouldn't be necessary. Picking an absolute pause quanta decreases the response time by the multple of the speed increase and may place unreasonable constraints on implementation clocks (per past comment ballots). On the other hand, picking an absolute time assumes implementations will not increase their clock speeds at all and may result in requiring excessive buffering for handling this upper layer response delay.
- *SuggestedRemedy*
- Instead of selecting a single number for all speeds, specify a delay value that is appropriate for each speed - which takes into account implementation approaches as well as reasonable buffering requirements.

  For example, consider a delay factor which increases by a factor of one half of the link speed increase, then, given a response delay of 8 PQ at 10Gb/s,
- For 40G, it gives 16PQ = 8PQ x 4/2, as speed increased by a factor of 4 from 10G.
- For 100G it gives 20PQ = 16PQ x 2.5/2, as speed increased by a factor of 2.5 from 40G.
- ACCEPT IN PRINCIPLE.
- Add an editor's note: "Potential concerns have been expressed about the delay constraint for the 100G speed. The DCB group is seeking input based on real designs.“
- There were no responses on recirculation to the editor’s note except to ask

5.26 MI 802.3bd to Sponsor ballot Jeffree 5 04:03 PM

Jeffree presented "2010-03-exec-motions.pdf", pages 14-15

Motion is 802.1 requests approval of the EC to forward P802.3bd to Sponsor ballot.

Moved by Jeffree, seconded by Thaler

Vote is 13/0/0, motion passes

MOTION

- 802.1 requests approval of the EC to forward P802.3bd to Sponsor ballot.

- Proposed: Thaler Second: Gray
- For: 20 Against: 0 Abstain: 4

- EC proposed: Jeffree Second:

Supporting material: P802.3bd

- WG recirc closed 5 Mar 2010
- WG ballot results Y: 28, N: 0, Abs: 24
- No outstanding comments or changes to the draft

5.27 MI 802.1Qbe to Sponsor ballot (conditional) Jeffree 10 04:04 PM

Jeffree presented "2010-03-exec-motions.pdf", pages 16-17

Motion is 802.1 requests conditional approval from the EC to submit 802.1Qbe to Sponsor Ballot.

Moved by Jeffree, seconded by Thaler

Vote is 13/0/0, motion passes

MOTION

- 802.1 requests conditional approval from the EC to submit 802.1Qbe to Sponsor Ballot.

- Proposed: Finn Second: Messenger
- For: 27 Against 0 Abstain: 3

- EC proposed: Jeffree Second:

Supporting material: P802.1Qbe

- WG recirc closed Mar 2010
- WG ballot results Y: 17, N: 3, Abs: 28
- Final recirculation in March/April timeframe to clear the outstanding negatives (Saltsidis, Kumar, Fedyk)
- Comments are at:

http://www.ieee802.org/1/files/public/Exec_files/802-1be-d1-2-negative-comments.pdf

- Comment resolution in May interim meeting if necessary

Law made a motion to modify the agenda to include an agenda item 5.28 interpretation for 802.3.

Moved by Law, seconded by Jeffree

Vote is 13/0/0, agenda is amended.

Law presented "802d3_0310_closing_EC_interp.pdf "

Motion is the LMSC Executive Committee approves the response to interpretation request 2-3/10.

Moved by Law, seconded by Thaler

Vote is 12/0/0, motion passes

Interpretation 2-3/10

Interpretation 2-3/10 (WG)

Request

http://www.ieee802.org/3/interp/interp-2-0310.pdf

Response

The standard is unambiguous. PBO is normatively defined in 55.4.3.1: "The minimum power backoff level requested shall comply with the power backoff schedule in Table 55–7.“

Interpretation 2-3/10

- The LMSC Executive Committee approves the response to interpretation request 2-3/10.

M: D Law, S: ????

Y: ??, N: ??, A: ??

Working Group vote:

Y: 33, N: 1, A: 13

6.00		**Executive Committee Study Groups, Working Groups, TAGs**			
6.01	**MI***	**802.3 40 Gb/s Single mode fiber (1st extension)**	**Law**		

Approved as part of the consent agenda

6.02	**MI**	**802.11 sub 1-GHz PHY**	**Kraemer**	**5**	**04:10 PM**

Kraemer presented "11-10-0426-00-0000-802-11-motions-for-the-march-2010-ec.ppt" slides 2-3

Motion is Request approval by IEEE 802 LMSC to form an 802.11 Study Group for Sub 1 GHz license-exempt operation (as described in doc 11-09/1313r5) with the intent of creating a PAR and five criteria.

Moved by Kraemer, seconded by Marks

Marks asked if there was acceptable bandwidth for the system.

Kraemer indicated that they expected to use much smaller bandwidths.

Mody asked if this covered TV whitespaces

Kraemer indicated that this is intended for the ISM band, but the PHY techniques may overlap with the TVWS 802.11 group

Heiles noted that 802.11 is now following 802.15 around. He also asked Kraemer to tell the SG to take coexistence seriously this time.

Kraemer indicated that he would

Vote is 12/0/0, motion passes

802.11 Study Group Motion 1

- **Request approval by IEEE 802 LMSC to form an 802.11 Study Group for Sub 1 GHz license-exempt operation (as described in doc 11-09/1313r5) with the intent of creating a PAR and five criteria.**

- **Moved: Bruce Kraemer**
- **Seconded:**

- **In the WG: Passed 34,0,2**

Sub 1 GHz and IEEE 802.11

- **Current IEEE 802.11 standard does not cover below 1 GHz, such as the 902-928 MHz ISM band.**
- **This band does have an advantage over 2.4 GHz, 3.65 GHz and 5 GHz because of range per transmit power.**
  - Better free space propagation loss
  - Better clutter propagation loss. i.e. trees, telephone poles
  - Increase in battery life
- **A disadvantage is the limited bandwidth.**
  - However sufficient for 5, 10 and 20 MHz OFDM
    - Down to 1.25 MHz wide channel also useful
  - Smaller channels also allow for bandwidth sharing

See: **https://mentor.ieee.org/802.11/dcn/09/11-09-1313-05-0wng-900-mhz-ism-band.ppt**

Kraemer presented "11-10-0426-00-0000-802-11-motions-for-the-march-2010-ec.ppt" slides 4-5

Motion is Request approval by IEEE 802 LMSC to form an 802.11Study Group to address fast initial authentication (as described in 11-10/0371r3) with the intent of creating a PAR and five criteria.

Moved by Kraemer, seconded by Lynch

Vote is 11/0/1, motion passes

802.11 Study Group Motion 2

- **Request approval by IEEE 802 LMSC to form an 802.11Study Group to address fast initial authentication (as described in 11-10/0371r3) with the intent of creating a PAR and five criteria.**

- **Moved: Bruce Kraemer**
- **Seconded:**
- **In the WG: 29,0,7 Passes**

Need for fast initial authentication

- **The authentication process is currently too slow to support rapid mobility of large numbers of mobile devices**
  - Authentication and Key Management times can be much larger than data exchange (for short status or location updates)
  - Initial secure authentication and association processes are not designed for this usage model
  - A Long Authentication and Key Management time looses scalability

We want to create a fast initial authentication that:

a) is suitable for users experiencing a small dwell time in a cell (due to high mobility or small cell sizes users)

b) scales for large number of simultaneously occurring initial authentications

See: https://mentor.ieee.org/802.11/dcn/10/11-10-0371-03-0000-fast-initial-authentication.ppt

Heile presented "15-10-0231-00-0000-EC-actions-motions-MCO-2010-03.ppt", slides 2-4

Motion is Move to approve the formation a Study Group in 802.15 to draft a PAR and 5C addressing Personal Space Communications."

Moved by Heile, seconded by Gilb

Vote is 12/0/0, motion passes

Personal Space Communication Study Group Summary

- The group presented a Tutorial on Monday evening. The document is available on mentor. (15-10-0156-03-0psc-psc-with-wpan-broadcsting.ppt)
- Roughly 25 companies and 40 people have been involved so far and expressed interest.
- Working Group approved forming a Study Group by a vote of 34/0/20 (Y/N/A)

Personal Space Communication Study Group

The goal is to produce a PAR and 5C supporting the proposed development of a new standard addressing the special requirements of Personal Space Communications, specifically the ability to support communications for multiple application types to a mobile user device within a small radius, maintaining attributes such as low power consumption, low cost, sufficient data rate, and mobility. The desire is to use an existing suitable 802.15 PHY or something very similar and to concentrate work on a new MAC which best addresses this application area.

Executive Committee Action- Personal Space Communication Study Group

Move to approve the formation a Study Group in 802.15 to draft a PAR and 5C addressing Personal Space Communications.

Moved: Bob Heile

Second: James Gilb

Vote:

6.05 MI 802.15.4 in the 2.3 GHz band for medical applications Heile 5 04:19 PM

Heile presented "15-10-0231-00-0000-EC-actions-motions-MCO-2010-03.ppt", slides 6-7

Motion is Move to approve the formation a Study Group in 802.15 to draft a PAR and 5C for an 802.15.4 PHY amendment to utilize the proposed 2.3 GHz band for MBAN."

Moved by Heile, seconded by Gilb

Vote is 12/1/0, motion passes

15.4 MBAN Study Group Summary

- Addresses a PHY amendment to 802.15.4 utilizing the 2.3 GHz MBAN being proposed by the FCC rounding out the 15.4 class of medical applications currently being deployed in the 2.4 band
- Roughly 10 companies have expressed interest so far
- Working Group approved forming a Study Group by a vote of 31/0/2 (Y/N/A)

Executive Committee Action- 15.4 MBAN Study Group

Move to approve the formation a Study Group in 802.15 to draft a PAR and 5C for an 802.15.4 PHY amendment to utilize the proposed 2.3 GHz band for MBAN.

Moved: Bob Heile

Second: James Gilb

Vote:

6.06	**MI***	**802.16 GRIDMAN (1st extension)**	**Marks**		

Approved as part of the consent agenda

6.07	**MI***	**802.21 wireless network management**	**Vivek**		

Approved as part of the consent agenda

6.08	**MI**	**ECSG emergency services, (2nd extension)**	**Thompson**	**5**	**04:30 PM**

Motion is to extend the ECSG emergency services.

Moved by Jeffree, seconded by Sherman

Vote is 13/0/0

Nikolich calls for a break at 4:34 pm

7.00		**Break**		**10**	**04:44 PM**

Meeting called to order at 4:44 pm.

Motion is to confirm Geoff Thompson as a Member Emeritus

Moved by Kraemer, seconded by Lynch

Thaler asked if he was going to be nominated as chair of the new WG.

Nikolich said that he intended to, but had not appointed him.

Nikolich asked if the SG had indicated who would be chair if the PAR was approved.

Thompson said that they had indicated that they were comfortable with him as chair.

Nikolich appointed Geoff Thompson as interim Chair of the 802.23 WG, if its PAR is approved.

Thompson said that it was his intention to run for Chair in July and wanted to know if the EC would then remove the his position as member emeritus.

Rigsbee sees no conflict in holding both positions.

Nikolich said that Thompson will continue as the chair of the SG.

Motion is withdrawn by the mover and seconder

8.00		**LMSC Internal Business**			
8.01	**MI**	**Reporting affiliation**	**Gilb**	**5**	**4:45 PM**

Presented March2010-motions.pdf. slide 1

Gilb discussed having a new method to declare affiliation.

After much discussion, Gilb withdrew the motion and instead will work out new wording for declaring affiliation.

Letters of affiliation

- Moved to add the following to the 802 Chair's guidelines
  - "Any person to be confirmed by the Sponsor shall, prior to confirmation by the Sponsor, send a notification to the 802 email reflector that states their affiliation. In addition, all persons who have been confirmed by the Sponsor shall provide notification of any changes to their affiliation via an email to the the 802 email reflector."

8.02	**II**	**802 Architecture group report and homework**	**Gilb**	**5**	**05:05 PM**

Gilb discussed the results of the 802 Architecture group meeting.

Announced teleconferences, Monday, Thursday, Friday, 1 hr each. 5pm UK, 26 April 2010, 29 April 2010, 30 April 2010. Will be cancelled if no presentations announced 5 days in advance.

8.03	**MI**	**802.2 Working Group cleanup**	**Gilb**	**5**	**05:00 PM**

Thaler moved to disband 802.2 working group.

Seconded Jeffree

Sherman indicated that it takes a 30 day email ballot to deactivate a group.

Thaler said that it was transferred in the past.

The mover and seconder agreed to withdraw the motion.

8.04	**MI**	**Set time for opening reports and tutorial presentations to be sent and posted**	**Gilb**	**5**	**05:10 PM**

Moved to add the following to the 802 chairs guidelines

"Opening reports, except for the treasurer's report, shall be submitted to the recording secretary 1 week in advance of the opening EC meeting and shall be posted to the website 3 days in advance of the opening EC meeting."

Moved by Gilb, seconded by Sherman

Note to Nikolich, need to clean up the chair's guidelines.

Vote is 7/5/1, motion passes

9.00		**LMSC Liaisons and External Interface**			
9.01	**ME**	**Request approval to establish a liaison with the Chinese Communications Standards Association**	**Kraemer**	**5**	**05:15 PM**

Kraemer presented "11-10-0426-00-0000-802-11-motions-for-the-march-2010-ec.ppt", page 6

Motion is "IEEE 802.11 requests that the LMSC chair establish a liaison with the China Communications Standards Association (CCSA) Wireless Communications Technical Committee (TC5) for the purpose of information exchange that meets the needs of all 802 stakeholders."

Moved by Kraemer, seconded by Lynch.

Request to change from meets to addresses. Motion now reads "IEEE 802.11 requests that the LMSC chair establish a liaison with the China Communications Standards Association (CCSA) Wireless Communications Technical Committee (TC5) for the purpose of information exchange that meets the needs of all 802 stakeholders."

Marks asked how this would relate to liaisons on diffreent levels.

Law suggested change to the motion to read "The LMSC executive committee approves the establishment of a liaison between 802.11 and the China Communications Standards Association (CCSA) Wireless Communications Technical Committee (TC5), for the purpose of information exchange.

Law proposes the following language, "The LMSC approves the 802.11 and 802.16 Working Groups to be included in the IEEE/China Communications Standards Association (CCSA) MOU technical cooperation agreement Wireless Communications Technical Committee (TC5) with the Annex, subject to approval by the respective working group Chairs and the EC Chair of the final language."

Vote is 13/0/0, motion passes.

802.11 Liaison Motion

- **IEEE 802.11 requests that the LMSC chair establish a liaison with the China Communications Standards Association (CCSA) Wireless Communications Technical Committee (TC5) for the purpose of information exchange that meets the needs of all 802 stakeholders.**
- **Moved: Bruce Kraemer**
- **Seconded:**
  - In the WG: Moved: Andrew Myles
  - Seconded: Rich Kennedy
  - Result: 31,0,3 Passes

9.02	**ME**	**Press release for P802.3bg serial 40 Gb/s Ethernet operation over single mode fiber (P802d3bg_PR_V1p0.doc)**	**Law**	**3**	**05:30 PM**

Law presents "P802d3bg_PR_V1p0.doc"

Motion is theThe EC supports the IEEE P802.3bg Physical Layer and Management Parameters for Serial 40 Gb/s Ethernet Operation Over Single Mode Fiber press release to be released contingent upon the IEEE-SA Standards Board approving the IEEE P802.3bg PAR at the IEEE-SA March Standards Board series next week, with editorial changes permitted to the draft press release as deemed necessary.

Moved by Law, seconded by Rigsbee

Votes is 13/0/0, motion passes

IEEE to Develop Amendment to IEEE 802.3 Standard, Adding **Serial 40 Gb/s Ethernet Operation Over Single Mode fibre**

New Standard to Provide Compatibility with Existing Interfaces

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

PISCATAWAY, N.J., USA, xx March 2010 -- The IEEE has approved work to begin on a new amendment to the IEEE 802.3™ Ethernet standard that will serve to enhance the 40 Gb/s Ethernet physical layer (PHY) capabilities already under development in the IEEE P802.3ba™ 40 Gb/s and 100 Gb/s Ethernet project.

The project is known as IEEE P802.3bg™, "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: Physical Layer and Management Parameters for Serial 40 Gb/s Ethernet Operation Over Single Mode Fiber."

The IEEE P802.3bg project aims to provide multiple system operators and telecommunications operators with an IEEE 802.3 Ethernet 40 Gb/s serial PHY that provides optical compatibility with existing carrier 40 Gb/s client interfaces. It is sponsored by the IEEE Computer Society's Local and Metropolitan Area Networks Committee and will be developed by the IEEE 802.3 Ethernet Working Group.

"This project is to build upon the current IEEE P802.3ba 40 Gb/s and 100 Gb/s Ethernet project to create a new PHY for 40 Gb/s Ethernet operation that is optimized for carrier networks." says David Law, Chair of the IEEE 802.3 Ethernet Working Group. "The ongoing liaison relationship between the IEEE 802.3 Working Group and ITU-T Study Group 15 will help to ensure interoperability between standards developed by the two organizations."

"There is a significant and growing deployment of 40 Gb/s serial interfaces in carrier networks and in access to carrier networks," says Mark Nowell, chair of the IEEE 802.3 40Gb/s Ethernet Single-mode Fibre PMD Study Group. "This new standard will have broad applications, allowing it to be used by multiple vendors. It will also help carriers to balance costs by providing backwards compatibility with deployed technology and minimizing OpEx costs due to simplified deployment."

The objectives for the IEEE P802.3bg project include:

- Support a Bit Error Ratio (BER) better than or equal to 10^{-12}.
- Provide a specification which support 40 Gb/s Ethernet operation over at least 2 km on Single Mode Fibre.
- Provide optical compatibility with existing carrier 40 Gb/s client interfaces (OTU3/STM-256/OC-768/40G POS).

The Working Group will hold its first meeting to develop IEEE P802.3bg in May 2010, hosted by the ITU in Geneva, Switzerland.

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 is the world's largest technical professional association. 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.

# # #

Law presents "802d3_0310_closing_EC_ITU_item.pdf" slide 2 and IEEE802d3_to_ITUSG15_01_0310.pdf

Motion is "The LMSC Executive Committee approves the letter ITU_01_0310.pdf, with editorial license granted to the Chair (or his appointed agent), as a liaison communication from the 802.3 working group to ITU_T Study Group 15.

Moved by Law, seconded by Rigsbee,

Vote is 12/0/1, motion passes

Liaison letter to ITU-T Study Group 15

- The LMSC Executive Committee approves the letter ITU_01_0310.pdf, with editorial license granted to the Chair (or his appointed agent), as a liaison communication from the 802.3 working group to ITU_T Study Group 15.

  M: D Law, S: ????

  Y: ??, N: ??, A: ??

  Working Group vote:

  Y: 73, N: 0, A: 2

IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group[1]

To: Yoichi Maeda, Chairman, ITU-T Study Group 15 (yoichi.maeda@ntt-at.co.jp)
Steve Trowbridge, Chairman, ITU-T Working Party 3/15 (steve.trowbridge@alcatel-lucent.com)
Yoshinori Koike, Associate Rapporteur, ITU-T Question 3/15 (koike.yoshinori@lab.ntt.co.jp)
Greg Jones, Counsellor, ITU-T Study Group 15 (greg.jones@itu.int)

CC: Paul Nikolich, Chair, IEEE 802 LMSC (p.nikolich@ieee.org)
Adam Healey, Secretary, IEEE 802.3 Ethernet Working Group (adam.healey@lsi.com)
Wael Diab, Vice-chair, IEEE 802.3 Ethernet Working Group (wdiab@broadcom.com)

Subject: Liaison to ITU-T Study Group 15 from IEEE 802.3

From: David Law – Chair, IEEE 802.3 Ethernet Working Group (David_Law@3Com.com)

Approval: Agreed to at IEEE 802.3 Plenary meeting, Orlando, FL, USA, 18 March 2010

Dear Mr. Maeda and members of ITU-T Study Group 15,

The IEEE 802.3 Ethernet Working Group thanks ITU-T Study Group 15 for this liaison and the opportunity to review and comment on the "Optical Transport Networks & Technologies Standardization Work Plan, Issue 12" coming out of your October 2009 meeting. We have reviewed the OTNT Plan content in consideration of the standardization activities in progress within the IEEE 802.3 working group and have the following comments:

Since the last full revision of IEEE Std 802.3-2008, the following work has been completed within the IEEE 802.3 working group:

- IEEE Std 802.1AX-2008 (Link Aggregation) was published on 3 November 2008
- IEEE Std 802.3av-2009 (10G-EPON) was published on 30 October 2009
- IEEE Std 802.3bc-2009 (LLDP) was published on 28 September 2009
- IEEE Std 802.3at-2009 (DTE power enhancements) was published on 30 October 2009
- IEEE Std 802.3-2008/Cor1-2009 was published on 1 February 2010

Please consider adding any of these of relevance for ITU-T Study Group 15 to table 7-1-2 and elsewhere in the document as appropriate.

Please note that many prior projects mentioned in your document (P802.3ae, P802.3ah, P802.3as) have been integrated into the most recent full revision of the standard (IEEE Std 802.3-2008) and no longer exist as separate, stand-alone documents. As such, they should not be referenced in your document.

[1] This document solely represents the views of the IEEE 802.3 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

The following projects are currently active within the IEEE 802.3 working group:

- IEEE P802.3az (Energy Efficient Ethernet), currently in the sponsor ballot phase.
- IEEE P802.3ba (40Gb/s and 100Gb/s Ethernet) has been completed and forwarded to the IEEE Standards Board for expected approval on 17 June 2010.
- IEEE P802.3.1 (P802.3be) (Ethernet MIBs), currently in the working group ballot phase.
- IEEE P802.3bf (Time synchronization support for 802.1as), currently in the task force review phase.
- IEEE P802.3bg (Serial 40Gb/s Ethernet), just authorized as a task force.

Given the approaching completion of the P802.3ba project, you may wish to consider adding 40GBASE-LR4, 100GBASE-LR4, and 100GBASE-ER4 interface descriptions to clause 5.5.1.1 (High bit rate and long reach interfaces) rather than including them in the separate section 5.5.1.9.

As IEEE Std 802.3ah-2004 has been incorporated into the base IEEE Std 802.3-2008 and IEEE Std 802.3av-2009 is now published, you may wish to reflect this update in clause 5.5.1.2.

Table 8-1 item 4 relates to long completed work as IEEE Std 802.3ah-2004 that is now part of IEEE Std 802.3-2008. In addition, the subsequent IEEE Std 802.3av-2009 has been approved and published. Since there is no active work within the IEEE 802.3 working group on this subject (although liaison statements can still be exchanged with the IEEE 802.3 Working Group concerning the standard), we suggest that this item be removed from your table.

We wish to thank the leadership and members of ITU-T SG15 for the opportunity to coordinate references to our work programs and we look forward to such continuing cooperation with ITU-T SG15 in the future.

Sincerely,

David J. Law
Chair, IEEE 802.3 Ethernet Working Group
David_Law@3Com.com

9.08	**II**	**Liaison letter to ITU/T Q9/15 regarding etherwire, G.8021 and code-point reuse**	**Jeffree**	**2**	**05:42 PM**

Nikolich moves to item 9.08 as Lynch is having projector problems.

Item taken out of order.

Jeffree indicated that there is concerned that there may be overlap with this study group.

Nikolich takes item 11.02 out of order

11.02	**II**	**30th anniversary wrap up**	**Risgsbee**	**3**	**05:45 PM**

Thompson said that the biggest lesson is that we need more time to get this done, at least two meeting cycles.

Rigsbee said that panel discussion went well because of the prep work the night before.

Thaler did not like the content of the session as some items were slanted by personal viewpoint. Doesn't think that the editor will not be able to correctly edit the result. Thought it was not broad enough and was a re-write of history.

Marks said that it tended to off more into the details of specific events, rather than a high level look.

Rigsbee said that the shirts were popular, but had a shortage of the small sizes. People liked the badge holders.

Nikolich said that it fell to just a few people on the EC and was too much for a small group of people.

9.04	**ME**	**Contribution to ITU-R WP5D - "IMT-2000 OFDMA TDD WMAN submission toward revision 10 of Recommendation ITU-R M.1457 (meeting x+2)" Doc. 18-10-0021-00**	**Lynch**	**3**	**05:46 PM**

Motion is To approve document: 18-10-0021 as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a “template”, create the appropriate input to ITU-R WP5D.

Moved by Lynch, seconded by Marks

Vote is 12/0/0.

9.05	**ME**	**Contribution to ITU-R WP5D - "On Roadmap for Updates of Recommendation ITU-R M.1457" Doc. 18-10-0022-01**	**Lynch**	**3**	**05:49 PM**

Motion is To approve document: 18-10-0022 as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a “template”, create the appropriate input to ITU-R WP5D.

Moved by Lynch, seconded by Marks

Vote is 13/0/0.

9.06	**II***	**Liaison letter to MEF regarding 802.1Qbc**	**Jeffree**

Approved as part of the consent agenda

9.07	**II***	**Liaison letter to MEF regarding CFM MIB extension**	**Jeffree**

Approved as part of the consent agenda

9.07	**II***	**Liaison letter to MEF regarding CFM MIB extension**	**Jeffree**

10.00		**IEEE SA items**

No IEEE SA items.

11.00		**Information Items**
11.01	**II**	**Treasurer's report**

Hawkins presented the "TreasClosingReportMar2010.pdf"

IEEE Project 802
Statement of Operations
Nov 2009 Plenary Session
Atlanta, GA
As of Mar 15, 2010

Draft

Session Income					dB		Est/*Act*		Budget	Deviation
		Net Registrations					*996*		1,100	(104)
80.1%	798	Early Registrations	@	$400	$	319,200				
	18	Cancellations	@	$350		(6,300)				
	11	Early cancellations	@	$400		(4,400)				
	0	Visa cancellations	@	$400		0				
19.9%	198	Registrations	@	$500		99,000				
	0	Cancellation	@	$500		0				
	1	Cancellation	@	$450		(450)				
0.0%	0	Student	@	$150		0				
	0	Other credits	@	$100		0				
		Registraion Subtotal			**$**	**407,050**	***$***	***407,050***	$ 463,540	$ (56,490)
	0	**Deadbeat Payment**	@	$500				0	0	0
		Interest						602	200	402
		Other (Hotel comps and commission)						*49,276*	55,000	(5,724)
TOTAL Session Income							***$***	***456,928***	**$ 518,740**	**$ (61,812)**

Session Expenses	Est/*Act*		Budget	Deviation
Audio Visual	*14,027*		25,500	11,473
Audit	*0*		0	0
Bank Charges	*180*		350	170
Copying	*1,952*		3,500	1,548
Credit Card Discounts & Fees	*19,465*		16,555	(2,910)
Equipment Expenses	*2,328*		2,500	172
Get IEEE 802 Conttribution	*72,375*		80,850	8,475
Insurance	*0*		0	0
Meeting Administration	*77,655*		86,950	9,295
Misc Expenses	*2,640*	*	3,500	860
Networking	*103,193*		100,000	(3,193)
Other Expenses	*0*	!	5,600	5,600
Phone & Electrical	*1,555*		200	(1,355)
Refreshments	*79,026*		100,000	20,974
Shipping	*12,357*		15,000	2,643
Social	*49,004*		75,000	25,996
Supplies	*1,344*		800	(544)
TOTAL Session Expense	**437,101**		516,305	79,204
NET Session Surplus/(Deficit)	**19,827**		2,435	17,392
Analysis				
Refreshments per registration	**79**		91	12
Social per registration	**49**		68	19
Meeting Admin per registration	**78**		79	1
Surplus/(Loss) per registration	**20**		2	18

* Misc items: Hotel gratuities, CD production expense,

! Online education software and hosting

Cash recognized on hand as of Feb 11, 2010	**$**	**1,160,945**	
Reserve for unpaid expenses for prior sessions	**$**	**(500)**	bank fees, CC fees, etc
Reserve for other outstanding commitments	**$**	**(30,000)**	30th anniversary expenses
Income received for current session (Mar 2010)	**$**	**-**	some income received by 2/11,bu
Expenses prepaid for current session (Mar 2010)	**$**	**60,000**	
Expenses prepaid for future sessions	**$**	**7,374**	
Equipment Receivable Acct	**$**	**31,998**	
Operating Reserve	**$**	**1,229,817**	

IEEE Project 802
Estimated Statement of Operations
Mar 2010 Plenary Session
Orlando, FL
As of March 19, 2010

Draft

Income		***Act*/Est**					**Budget**					**Var**	Var %
Paid Registration Summary	**Fee**	**Gross**	**Cxl**	**Net**	**Net Amt**	**%**	**Gross**	**Cxl**	**Net**	**Net Amount**	**%**		
Pre-registration	$ 700	38	3	35	$ 24,600	4%	44				4%		
Pre-registration (with discount)	$ 400	763	32	731	$ 293,550	76%	770				70%		
Web-registration	$ 800	15	0	15	$ 12,000	2%	33				3%		
Web-registration (with discount)	$ 500	105	3	102	$ 51,100	11%	165				15%		
Onsite-registration	$ 900	14	0	14	$ 12,600	1%	22				2%		
Onsite-registration (with discount)	$ 600	58	0	58	$ 34,800	6%	66				6%		
Student-registration	$ 100	2	0	2	$ 200	0%	0				0%		
Total Registration		**995**	38	**957**	$ 428,850	100%	1100	22	1078	$496,958	100%	($68,108)	-14%
						88%					90%		
Non-registration Income													
Deadbeat collections					$ -	0%				$ -	0%	$0	
Bank interest					$ 200	0%				$ 200	0%	$0	
Comps & Commissions					$ 57,750	12%				$ 55,000	10%	$2,750	
Other					$ -	0				$ -	0%	$0	
Total Session Income					**$ 486,800**	100%				**$ 552,158**	100%	($65,358)	-12%
Expenses													
Audio Visual					$ 15,000	3%				$ 25,500	5%	($10,500)	
Audit					$ 2,000	0%				$ 2,000	0%	$0	
Bank Charges					$ 350	0%				$ 350	0%	$0	
Copying					$ 1,600	0%				$ 3,500	1%	($1,900)	
Credit Card Discounts & Fees					$ 15,010	3%				$ 17,394	3%	($2,384)	
Equipment Expenses					$ 1,000	0%				$ 1,000	0%	$0	
Get IEEE 802 Conttribution					$ 71,775	15%				$ 80,850	16%	($9,075)	
Insurance					$ -	0%				$ -	0%	$0	
Meeting Administration					$ 79,157	17%				$ 85,751	17%	($6,595)	
Misc Expenses					$ 1,000	0%				$ 2,000	0%	($1,000)	
Networking					$ 97,500	21%				$ 100,000	19%	($2,500)	
Other Expenses					$ 27,000	6%				$ 30,000	6%	($3,000)	
Phone & Electrical					$ 500	0%				$ 1,000	0%	($500)	
Refreshments					$ 105,000	22%				$ 110,000	21%	($5,000)	
Shipping					$ 8,000	2%				$ 15,000	3%	($7,000)	
Social					$ 43,000	9%				$ 40,000	8%	$3,000	
Supplies					$ 800	0%				$ 800	0%	$0	
Total Session Expense					**$ 468,691**	100%				**$ 515,145**	100%	($46,453)	
Net Session Surplus/(Loss)					**$ 18,109**					**$ 37,013**			

Budget Assumptions

Gross	1100
Cxl rate	2.0%
CC discount	3.5%

Comp Computations

Caribe nights		3000
Caribe rate	$	170
Buena Vista nights		450
Buena Vista rate	$	150
	$	57,750

Stats

	Act/Est	Bud
Avg fee	$ 448	$ 461
Cancellation inc	$ 17,029	$ 10,142
Per Registration		
Refreshments	$ 110	$ 102
Social	$ 45	$ 37
Meeting Admin	$ 83	$ 80
Network	$ 102	$ 93
Get IEEE	$ 75	$ 75
Surplus/Deficit	$ 19	$ 34

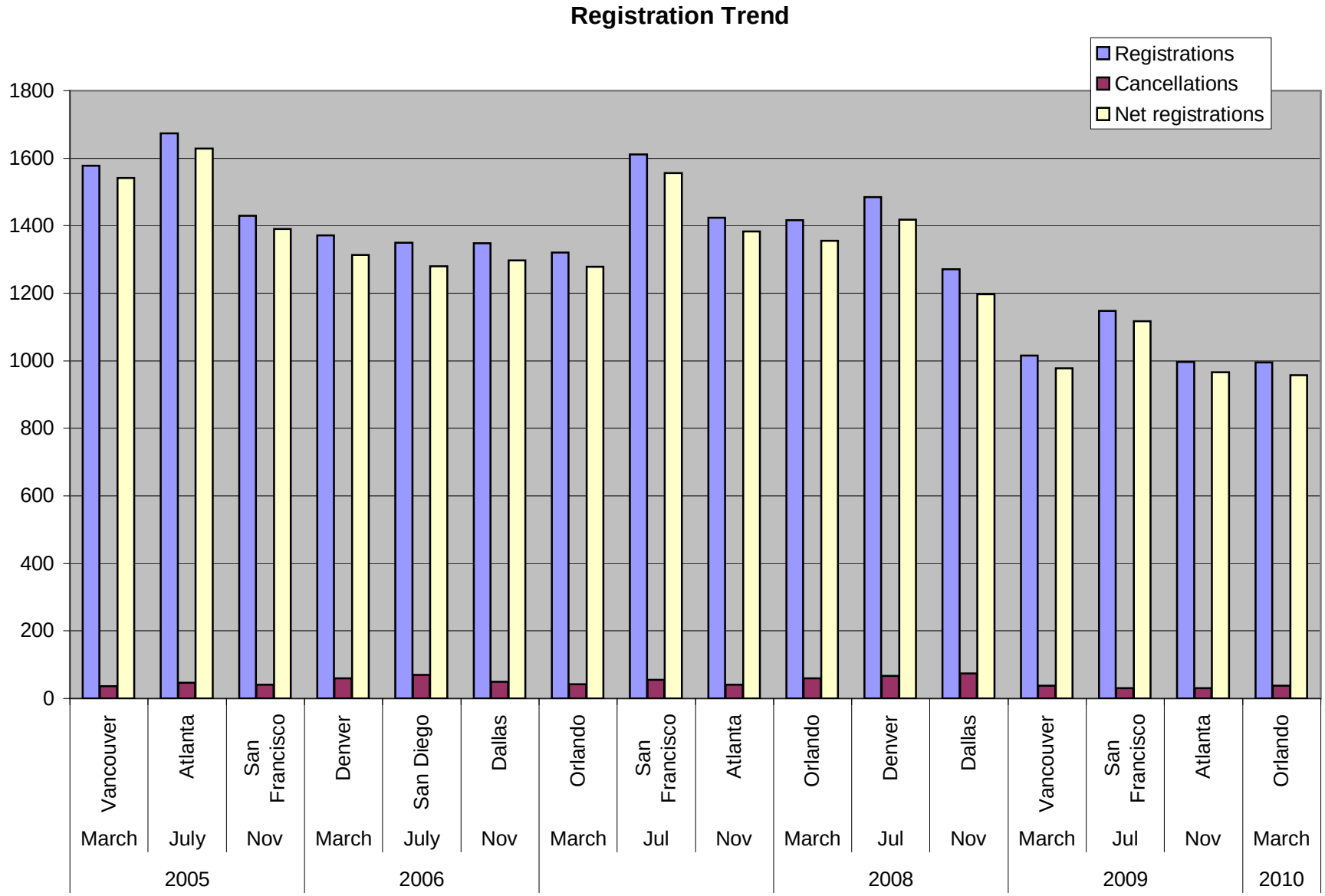
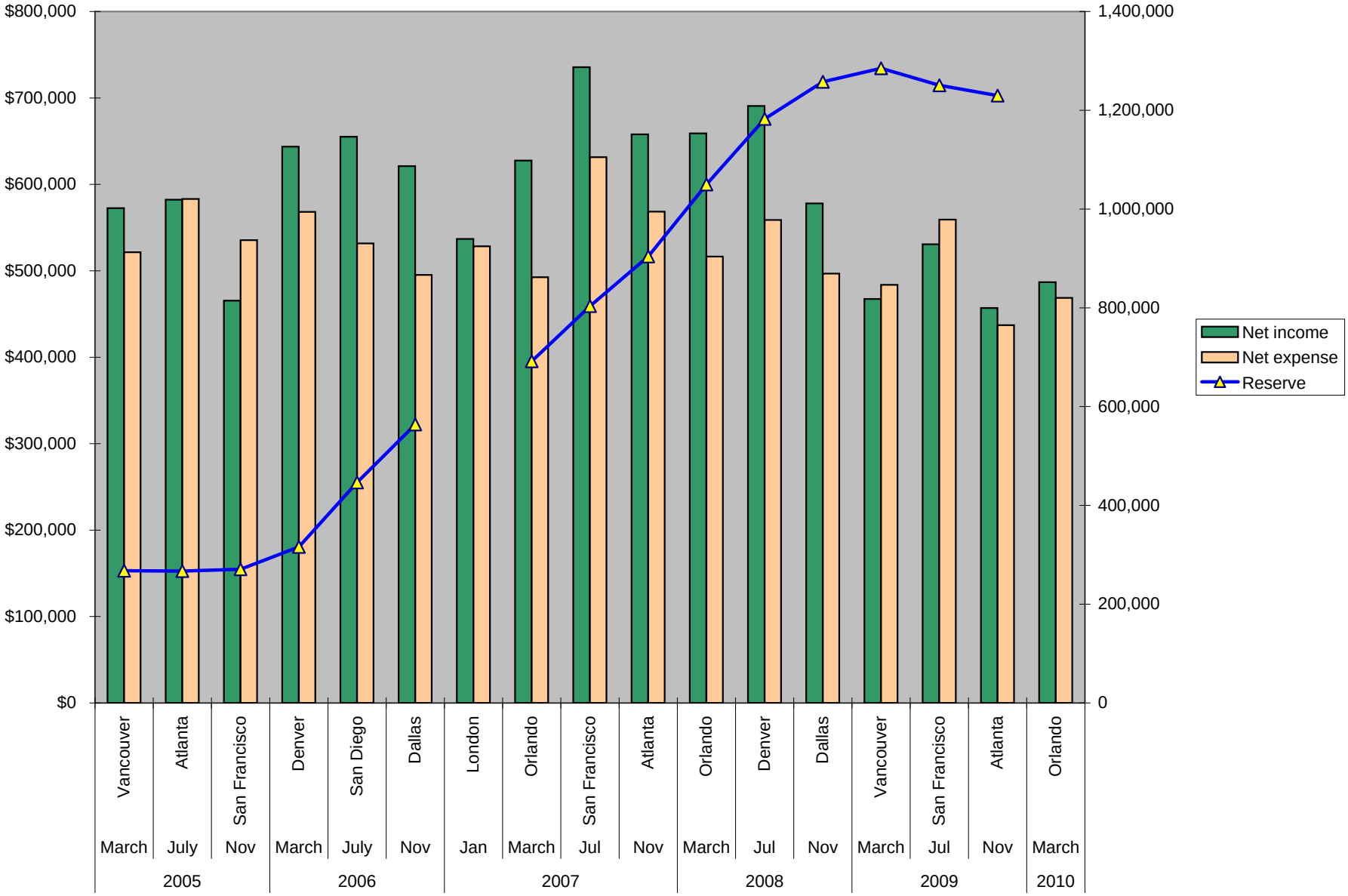

Registration Trend
Registrations
Cancellations
Net registrations
1800
1600
1400
1200
1000
800
600
400
200
0
Vancouver
Atlanta
San Francisco
Denver
San Diego
Dallas
Orlando
San Francisco
Atlanta
Orlando
Denver
Dallas
Vancouver
San Francisco
Atlanta
Orlando
March
July
Nov
March
July
Nov
March
Jul
Nov
March
Jul
Nov
March
Jul
Nov
March
2005
2006
2008
2009
2010

Chart3


$800,000
$700,000
$600,000
$500,000
$400,000
$300,000
$200,000
$100,000
$0
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
Net income
Net expense
Reserve
Vancouver
Atlanta
San Francisco
Denver
San Diego
Dallas
London
Orlando
San Francisco
Atlanta
Orlando
Denver
Dallas
Vancouver
San Francisco
Atlanta
Orlando
March
July
Nov
March
July
Nov
Jan
March
Jul
Nov
March
Jul
Nov
March
Jul
Nov
March
2005
2006
2007
2008
2009
2010

Hawkins presented "802-0310-Fri-EC-Motion-MtgMgrTravelExpense-03.doc"

Motion is "Approve reimbursement of out of pocket expenses for required coach-class airfare and airport carfare for Meeting Manager to travel to/from IEEE-802-hosted Sessions as documented with timely receipts and approved by the LMSC Treasurer. No other expenses shall be reimbursed. Reimbursement period shall be limited to March 2010 through March 2012 sessions. Estimated cost is $400 to $1,600 per session.

Moved by Hawkins, seconded by Marks

Vote is 4/5/3, motion fails

All the rest of the items will be circulated on the EC reflector.

Meeting adjourned at 6:01 pm

11.03	**II**	**Update on upcoming venues**	**Risgsbee**	**3**
11.04	**II**	**Report on Plenary Session Break Time Trials**	**Risgsbee**	**3**
11.05	**II**	**Followup on July EC Workshop action items**	**Nikolich**	**5**
11.06	**II**	**802 Task force report**	**Nikolich**	**5**
11.07	**II**	**P&P report**	**Sherman**	**5**
11.08	**II**	**Regulatory report**	**Lynch**	**5**
11.09	**II**	**Appeals report**	**Gilb**	**1**
11.09	**II**	**Appeals report**	**Gilb**	**1**
11.10	**II**	**Network Services report**	**Alfvin**	**2**
11.07	**II**	**P&P report**	**Sherman**	**5**
11.11	**DT**	**Cross working group document access**	**Kraemer**	**2**

Items not covered due hard stop at 6:00 pm.

12.00	**ADJOURN SEC MEETING**	**Nikolich**	**06:00 PM**

EC-Motion:

Mover: John Hawkins

Second:

Date: 3/19/2010

Meeting Manager Travel Expense Reimbursement:

Approve reimbursement of out of pocket expenses for required **coach-class airfare** and **airport carfare** for Meeting Manager to travel to/from IEEE-802-hosted Sessions as documented with timely receipts and approved by the LMSC Treasurer. No other expenses shall be reimbursed. Reimbursement period shall be limited to March 2010 through March 2012 sessions. Estimated cost is $400 to $1,600 per session.

Yes _____ No _____ Abstain _____