

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

Prepared by John D'Ambrosia, Recording Secretary

Friday, Nov 13, 2015 – 1:00 p.m.  
All times CST

Hyatt Regency Dallas  
Dallas, TX, USA

## **EC Voting members (or their representatives) present:**

Paul Nikolich	Chair, IEEE 802 LAN/MAN Standards Committee
Pat Thaler	1 <sup>st</sup> Vice Chair, IEEE 802 LAN/MAN Standards Committee
James Gilb	2 <sup>nd</sup> Vice Chair, IEEE 802 LAN/MAN Standards Committee,
Clint Chaplin	Treasurer, IEEE 802 LAN/MAN Standards Committee
Jon Rosdahl	Executive Secretary, IEEE 802 LAN/MAN Standards Committee
John D'Ambrosia	Recording Secretary, IEEE 802 LAN/MAN Standards Committee
Glenn Parsons	Chair, IEEE 802.1 – HILI Working Group
David Law	Chair, IEEE 802.3 – Ethernet Working Group
Adrian Stephens	Chair, IEEE 802.11 – Wireless LAN Working Group
Bob Heile	Chair, IEEE 802.15 – Wireless PAN Working Group
Roger Marks	Chair, IEEE 802.16 – Broadband Wireless Access Working Group
Mike Lynch	Chair, IEEE 802.18 – Regulatory TAG
Steve Shellhammer	Chair, IEEE 802.19 – Wireless Coexistence Working Group
Subir Das	Chair, IEEE 802.21 – Media Independent Handover Working Group
Apurva Mody	Chair, IEEE 802.22 – Wireless RANs Working Group
Tim Godfrey	Chair, IEEE 802.24 - Vertical Applications TAG

## **EC Nonvoting members present:**

Geoff Thompson	Member Emeritus
Radhakrishna Canchi	Chair, IEEE 802.20 – Mobile Broadband Wireless Access Working Group

## **EC Voting members absent:**

## **EC Nonvoting members absent:**

John Lemon	Chair, IEEE 802.17 – Resilient Packet Ring Working Group
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r03		DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING			
		Friday 1:00PM-6:00PM, 13 Nov, 2015)			
Key:		ME - Motion, External, MI - Motion, Internal, DT- Discussion Topic, II - Information Item			
		Special Orders			
		Category (* = consent agenda)			
		Executive Session			
1.00		MEETING CALLED TO ORDER	Nikolich	10	01:00 PM

Meeting called to order at 1pm

2.00	MI	APPROVE OR MODIFY AGENDA	Nikolich	10	01:10 PM
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Discussion

The following modifications were requested.

- 7.021 delete
- 8.031 should be allocated 0 minutes
- 4.01 should approve "V1" of Oct Conference call minutes.

Recording Secretary noted that the agenda would be revised and posted.

* Motion #1	Move to approve agenda
Moved	D'Ambrosia
Second	Chaplin
Results	Motion approved unanimously without objection
Motion	15-0-0
Reference	Agenda Item #2.00

Note – Agenda was modified during course of meeting. See Item 7.014.

URL: Updated Agenda: <https://mentor.ieee.org/802-ec/dcn/15/ec-15-0079-05-00EC-nov-2015-closing-agenda.xlsx>

3.00	II	Announcements from the Chair	Nikolich	5	01:20 PM
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Chair noted that there were no announcements.

4.00		LMSC Internal business			01:25 PM
4.01	MI*	<b>APPROVE Motion: Approve V1 minutes of Oct conference call</b>	Gilb	0	01:25 PM

Approved with approval of agenda.

4.02	II	2016 Elections Announcement	Nikolich	1	01:25 PM
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Chair noted elections in March 2016 for IEEE 802 EC Chair. Potential candidates for chair should contact current chair or recording secretary. It was noted that there are no term limits. Recording secretary noted he would be sending out email regarding letters of endorsement and affiliation.

4.03	II	Radio regulatory organizational update	Thaler	10	01:26 PM
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Thaler showed the following slides

## Radio Regulatory discussions

Met several times to a way forward for our radio regulatory process

- Monday with 802.18 and meetings Tuesday morning and Wednesday afternoon.
- Agreed that a clear problem statement and mission statement were needed.
- IEEE 802 sub group rules allow for flexibility so additional information is needed to define the type of Standing Committee proposed.

## Radio Regulatory (RR) Process Plan

- Ad hoc to develop
  - Problem statement and mission statement for our RR activity.
  - Proposed structure/rules if a RR standing committee is created
  - Proposed process improvements for RR TAG
- Discuss the results in a meeting slot on Monday of the January interim and at Workshop
- Make decisions on Feb EC telecon or March EC

Pat Thaler, 13 Nov 2015



## Volunteers for ad hoc

- Paul Nikolich
- Mike Lynch
- Tim Godfrey
- Bob Heile
- Rich Kennedy
- Apurva Mody
- Jay Holcomb
- Roger Marks
- Pat Thaler
- Subir Das
- Others?

Juan Carlos Zuniga, Ben Rolfe, Adrian Stephens Steve Shellhammer also volunteered for ad hoc

## Rules issue noticed

- 802 LMSC P&P 5.2.2 Disbanding a WG
  - After all standards, recommended practices, and technical reports for which a hibernating WG is responsible are withdrawn or transferred to another group or groups, a Sponsor electronic ballot of 30 days minimum duration shall be conducted to determine whether the hibernating WG is to be disbanded.
- Assumes that a group is hibernated before disbanding.
  - Hibernation doesn't apply to a TAG with no PARs or a WG that didn't produce a standard
  - We have disbanded both without going through hibernation
  - Our rule should include disbanding a group that doesn't hibernate first.

Stephens showed the following slides. It was noted that the motion was approved 48-0-8.

November 2015

doc.: IEEE 802.11-15/1433r2

## Mission Statement for Regulatory Change

- 1) **Represent IEEE 802 as the leader in wireless access networking development**
  - Provide regulators with roadmap and rationale for new standards work
  - Respond to all relevant regulatory proceedings
  - Develop a relationship with regulators that encourages dialogs, both formal and informal
- 2) **Represent the best interests of every IEEE 802 wireless WG to regulators**
  - Internal compromises only when the best interests of each WG involved are not muted
  - IEEE 802 positions should present multiple positions when necessary, the regulators should do the accommodation
- 3) **Rapid response to proceedings is critical**
  - Approval process must incorporate an expedited response capability
  - Meeting schedules must have greater flexibility
  - SC votes must be allowed in teleconferences
- 4) **Improve collaboration and coordination with appropriate Industry Organizations**

Submission

Slide 5

Rich Kennedy, MediaTek

November 2015

doc.: IEEE 802.11-15/1433r2

## 802.11 WG Motion

- **Approve document *11-15-1433-01-0reg-regulatory-sc-mission-statement-from-802-11* as the 802.11 WG as their input to the EC discussion on a regulatory mission statement.**
- **Moved by Rich Kennedy on behalf of the Regulatory SC**
- **Seconded by:**
- **Discussion?**
- **Vote: Y N A**

Submission

Slide 6

Rich Kennedy, MediaTek

The Ad Hoc saw this slide Wed of this week, and agreed with the following content.

It was noted that point #2 of Stephen's slide was well received in other groups.

Time: 1:24PM

4.04	II	Update - IEEE 802.11 activities related to 5G: <a href="https://mentor.ieee.org/802.11/dcn/15/11-15-1469-00-0000-summary-of-802-11-5g-activities.ppt">https://mentor.ieee.org/802.11/dcn/15/11-15-1469-00-0000-summary-of-802-11-5g-activities.ppt</a>	Stephens	10	01:36 PM
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Stephens presented the following slides.

**November 2015**

**doc.: IEEE 802.11-15/1469r0**

## **IEEE 802.11 activites related to 5G**

**Date: 2015-11-12**

**Authors:**

<b>Name</b>	<b>Company</b>	<b>Address</b>	<b>Phone</b>	<b>email</b>
Adrian Stephens	Intel Corporation			<a href="mailto:adrian.p.stephens@intel.com">adrian.p.stephens@intel.com</a>

Report

Slide 1

Adrian Stephens, Intel Corporation

## Introduction

- This brief report cites activities in 802.11 related to 5G
- It is provided for information to the LMSC EC

## Presentations

- **This meeting:**
  - “Relevance of 802.11 to 5G”
    - [“Tutorial-panel discussion-Perspectives on IEEE 802.11 in 5G”](#) on Monday evening (November meeting) ~200 present.
  - Presentation to 802.11 Wireless Next Generation
    - [“Thoughts on 802.11 in a 3GPP 5G Network”](#), (November meeting)
  - Discussion in the architecture (ARC) SC
    - [“Update on 3GPP RAN3 Multi-RAT joint coordination”](#)
  - [“IEEE as IMT-2020”](#)
    - Presentation to the WG
      - Description of IMT-2020. Discussion of how 802.11 can be part of IMT-2020. This is different from IMT-advanced, because scope of IMT-2020 is much broader.
- **Previous meetings:**
  - Tutorial on 802.11 as a component (July meeting)
  - “Follow-up on 802.11 as a component”(WNG, September meeting)
  - Discussions in ARC SC

## Discussion

- **There are multiple related threads in 802.11, but they all originate from “5G”, which defines a broad range of usage models and device capabilities.**
  - Multiple bodies appear to claim “ownership” of 5G (ITU-R, NGMN, 3GPP)
- **Some of these capabilities clearly map on to 802.11 technologies.**
- **Most (~80%) of today’s mobile data goes over 802.11. Some believe we can ignore the “5G core network” aspects of 5G. Others believe we cannot afford to ignore this, and therefore have to be “compatible” or “friendly” towards integration with a 5G core network with varying degrees of coupling.**
- **Our experience of meaningful collaboration with 3GPP is poor. This encourages unnecessary duplication of radio access technologies.**

Report

Slide 4

Adrian Stephens, Intel Corporation

November 2015

doc.: IEEE 802.11-15/1469r0

## Discussion – 2

- **5G is both a challenge and an opportunity on many levels.**
  - Marketing value
  - Core network refresh
- **IMT-advanced really wasn’t relevant to 802.11 because of its mobility requirements. IMT-2020 is not specific to highly mobile applications, but includes new usage models, such as IoT.**
- **802.11 meets many of the IMT 2020 requirements, and WG11 is considering submitting as an approved IMT 2020 technology on an equal footing with cellular. Being approved might also increase the chance of getting additional spectrum.**

Report

Slide 5

Adrian Stephens, Intel Corporation

Discussion- Interest from 802.1 spectrum – noted on bottom of slide 5 – “Being approved might also increase the chance of getting additional spectrum.”

This will be discussed in more detail during Jan leadership workshop.

Mr. Law noted he added the following item for the leadership workshop - “Should there be a coordinated response to IMT 2020 from IEEE 802? (Stephens / Marks)”

Action Item – Stephens / Marks address topic for Jan Leadership Workshop – “Should there be a coordinated response to IMT 2020 from IEEE 802”

4.05	II	Report - Attendance Recording behavior. <a href="https://mentor.ieee.org/802.11/dcn/15/11-15-1219-00-0000-nov-2015-wg-supplementary-material.ppt">https://mentor.ieee.org/802.11/dcn/15/11-15-1219-00-0000-nov-2015-wg-supplementary-material.ppt</a>	Stephens	10	01:46 PM
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Stephens showed the following slides

November 2015

doc.: IEEE 802.11-15/1219r3

## 4.05 - Survey of attendance reporting

- **At the last meeting, manual counts were taken of the number of people present in the room at the half-way point of each meeting.**
  - As 75% attendance in a meeting is required to claim attendance, everybody claiming attendance should be present at this point
- **The counts recorded from the IMAT attendance system were captures and compared.**
- **See the following slides**

## F6.2 - Recorded counts from the minutes

	Monday					Tuesday						Wednesday				Thursday				Friday	Totals
	am1	am2	pm1	pm2	eve	am0	am1	am2	pm1	pm2	eve	am1	am2	pm1	pm2	am1	am2	pm1	pm2	am1/2	
WG	175												151							40	366
ARC								18				12									30
REG								18								22					40
WNG							114														114
LRLP			38																70		108
TGmc				22	15				17	12				15	30				17	17	145
TGah				75													70				145
TGaj			7					8							10						25
TGaq				8			5			8		9		8			6				44
TGak		6			5		4				6					9	5		7		42
TGax		150	153					166	130			130			120	150		150			167
TGay		45		62			60														106
TGaz										30		30					46				
Totals	175	201	198	167	20	0	183	210	147	50	6	181	151	23	160	181	127	167	94	40	2481

Report

Slide 34

Adrian Stephens, Intel Corporation

## Counts from IMAT

	Monday					Tuesday						Wednesday				Thursday				Friday	Totals	
	am1	am2	pm1	pm2	eve	am0	am1	am2	pm1	pm2	eve	am1	am2	pm1	pm2	am1	am2	pm1	pm2	am1/2		
WG+	213												221								47	481
ARC								18				12										30
REG								19								23						42
WNG							132															132
LRLP			38																	64		102
TGmc			22	15					20	15				17	27				18	24		158
TGah				96													114					210
TGaj			7					7							10							24
TGaq				8			6			9		10		6			7					46
TGak		6			5		6				6					8	9		13			53
TGax		174	168					187	197			180			176	181		180				1443
TGay		45		77			58															180
TGaz										31		32					45					108
Total	213	225	235	196	5	0	202	231	217	55	6	234	221	23	213	212	175	198	101	47	3009	

Report

Slide 35

Adrian Stephens, Intel Corporation

## Ratio: IMAT/physical (where physical was recorded)

	Monday					Tuesday						Wednesday				Thursday				Friday	Ave	
	am1	am2	pm1	pm2	eve	am0	am1	am2	pm1	pm2	eve	am1	am2	pm1	pm2	am1	am2	pm1	pm2	am1/2		
WG+	1.2												1.5								1.175	1.31
ARC								1				1										1.06
REG								1.1								1						1.05
WNG							1.2															1.16
LRLP			1																	0.9		0.94
TGmc			1	1					1.2	1.3				1.1	0.9				1.1	1.4		1.05
TGah				1.3													1.6					1.45
TGaj			1					0.9							1							0.96
TGaq				1			1.2			1.1		1.1		0.8			1.2					1.05
TGak		1			1		1.5				1					0.9	1.8		1.9			1.26
TGax		1.2	1.1					1.1	1.5			1.4			1.5	1.2		1.2				
TGay		1		1.2			1															1.08
TGaz										1		1.1					1					1.02
Average	1.2	1.1	1.1	1.2	1		1.1	1.1	1.5	1.1	1	1.3	1.5	1	1.3	1.2	1.4	1.2	1.1	1.175	1.21	

Report

Slide 36

Adrian Stephens, Intel Corporation

## How should we respond to this data?

- Should we care?
- Should we ask IEEE 802 for guidance?
- Should we try to change IEEE 802 rules?
- Should we attempt to identify the those abusing the system?
- How do we define participation?
- What behaviours are we trying to encourage, and what discourage?
- How does a tool impede or enable “real work?”

Report

Slide 37

Adrian Stephens, Intel Corporation



## Comments from WG members

- We're wrong about the rules
- We're wrong about interpretation of the statistics
- We should be more "collegial". Focus more on getting the work done
- Trade attendance at plenaries vs missing a ballot
- Rules are imperfect, and it's clear some are cheating
- Attendance for registration has its own problems "buying votes". Don't put too much effort into addressing this - fix obvious abuses.

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Report

Slide 38

Adrian Stephens, Intel Corporation

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November 2015doc.: IEEE 802.11-15/1219r3

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- Discussion is itself borderline offensive. We are here to develop standards. We are giving up time and money. We are the customers. Should completely disconnect voting rights from attendance.
- It is reasonable that voting membership should be based on attendance. Current requirements are not onerous. But it's an annoyance to record attendance. Perhaps less granular attendance.
- Should not restrict voting membership to attendees at f2f meetings. Too high a bar. We shouldn't waste time, but only address egregious offense. People are imperfect.

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Report

Slide 39

Adrian Stephens, Intel Corporation

- Attendance for picking up your badge.
- Attendance as a proxy for skill-set / expertise. Not sure this works well.
- Voting in a WG letter ballot does not allow abstain except for lack of expertise -> excessive "yes" voters. Should support "abstain - don't care". Skewed letter ballot results.
- Need to keep track of active participation. Some people have difficulty achieving 75% due to other commitments, e.g. ad-hoc meetings. Contributors should be given flexibility. Perhaps a 1 per day recording of attendance.

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Report

Slide 40

Adrian Stephens, Intel Corporation

- Recording attendance by TG and slot determines level of participation and interest. Our standards don't get improved by tracking more closely. Coarser granularity good enough for voting status.
- 2 conflicting requirements for recording: voting status and participation in any particular TG. Should keep recording per slot for participation. Should allow shared attendance in one slot.
- We currently have a request to IEEE-SA staff to modify tools to track both attendance and presence. Attendance should be by WG, not TG. Presence by TG.
- Motion: Attendance requirements shall be considered satisfied by attendee who has registered for 802.11 as primary group, when the badge is picked up.

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Report

Slide 41

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## Motion approved in WG11

- **Direct the WG leadership to investigate the necessary changes in rules and procedures to enable “Attendance requirements shall be considered satisfied by attendee who has registered for 802.11 as primary group, when the badge is picked up”, and report back to the WG in the January 2016 session.**

**Moved: Knut Odman**

**Seconded: Paul Lambert**

**Result: 41-2-8 Passes**

Law noted an item for workshop- Attendance requirements for obtaining membership (Adrian Stephens)

**Action Item – Stephens address topic for Jan Leadership Workshop - Attendance requirements for obtaining membership**

It was discussed how could “participation” be encouraged, but that is different than attendance or presence.

4.06	II	Clarification on OM 6.1 Voting Guidance with respect to "affiliate block"	Stephens	10	01:56 PM
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Stephens showed the following slide.

November 2015

doc.: IEEE 802.11-15/1219r3

## 4.06 – Clarification on OM 6.1 Voting Guidance with respect to "affiliate block"

- The WG P&P make it a duty of the WG chair to determine when block voting takes place.
- OM 6.1 is probably about something else.
- The issue is that there is no guidance at the WG level as to:
  - The definition of block voting
  - How to determine block voting
  - What actions to take in response
- So we end up with a situation where the chair is given a clear responsibility, but how to handle it is entirely opaque

Report

Slide 43

Adrian Stephens, Intel Corporation

Comparisons of trying to identify block voting were made to trying to identify pornography. Rosdahl noted the definition of dominance noted in IEEE-SA STANDARDS BOARD BYLAWS - 5.2.1.3 Dominance. It was noted that the text in the ops manual may be something that can be leveraged. Comments about prior experience on this topic

Action Item – Thompson address topic for Jan Leadership Workshop on dominance

4.07	II	Indemnification Policy Clarification	Nikolich	5	02:06 PM
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Eileen Lach, IEEE General Counsel and Chief Compliance Officer, committed to provide language prior to workshop for discussion at workshop. Nikolich indicated she might be able to attend.

**Action Item – Nikolich work with Lach on language regarding indemnification policy.**

Chair requested that Law address out of order Item 4.11

4.11	II	Jan 2016 - 802 EC Leadership Workshop Update	Law	5	02:41 PM
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Law noted the following items for the Workshop agenda.

[1] A single sentence tag line for 802 projects, press releases, and similar. (Gilb)

Suggest that this will be a homework item in preparation for the meeting.

[2] Discussions on the development of YANG models. YANG models are used by NETCONFIG management of devices. (Law)

A lot of interest, share approaches being used by IEEE 802.1 and IEEE 802.3.

[3] Final clarification of the indemnification policy. (Nikolich)

[4] Discussion of the impact of updated patent policy on IEEE 802 (Nikolich)

[5] Can a Study Group develop more than one PAR? (Law)

[6] Radio regulatory (RR) process plan (Thaler)

Discuss results of ad hoc

[7] Should there be a coordinated response to IMT 2020 from IEEE 802 (Marks)

[8] Attendance requirements for obtaining membership (Stephens)

[9] Clarification on 'affiliated block" text (Thompson)

[10] Get program (Nikolich)

Law noted that he has been receiving requests from 802 participants to attend the workshop, based on the topics being listed in the agenda. It was noted that if the meeting "opened up" – that the agenda would need to include Exec sessions.

It was suggested that the workshop should be run like an 802 EC Meeting. However, it was noted that this and prior leadership conferences have been sponsored by the event hotel, which has limited hotel space to 20 seats. Vigorous discussion on this topic occurred, understanding the nuances of the different perspectives on the problem.

**Action Item – Rosdahl / Law Arrange session @ January Interim on Friday afternoon to discuss sensitive topics identified as part of Leadership Workshop**

4.08	MI	Future Venues	Rosdahl	10	02:11 PM
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Rosdahl showed the following slides.

Heile indicated that he has received some numbers back regarding the KL Ritz / Marriott. Further pricing update from SuZhou location. Expecting resolution by March, 2016.

doc:802 EC-15/091r3

## Future Venue Insight

- Future 802 Plenary Sessions:
  - January 2016 – 802 Interim - Hyatt Regency Atlanta
  - March 2016 Venetian Macao - Macao
  - July 2016 Manchester Grand Hyatt – San Diego
  - Nov 2016 Grand Hyatt San Antonio
  - March 2017 Hyatt Regency/Fairmont – Vancouver
  - July 2017 Estrel Hotel – Berlin
  - Nov 2017 Caribe Hotel and Convention Center - Orlando
  - March 2018 Hyat Regency O'Hare – Rosemont, IL
  - July 2018 Manchester Grand Hyatt – San Diego
  - Nov 2018 Potential Targets:
    - KL - Ritz and Marriott
    - (2015-11-12 - Floor space Price update)
    - SuZhou, China -
    - (New facility, pricing model being negotiated, Sponsor capability investigation)



## 802 Plenary March 2016

- Save the Date: 13-18 March 2016
- Registration target to open Dec 1, 2015
- Meeting Space – Covered by Room Block
- Hotel Information: (Block Reservation open Dec 1 – Feb 16)
  - charges are a bit higher on weekends:
    - Friday: 1,700 MOP (~USD\$213)
    - Saturday: 2,300 MOP (~USD\$288)
    - Sunday-Thursday : 1,550 MOP (~USD\$194)
  - Required 802 Block = 3255 total nights at a cost of about \$650,338
  - Make Reservations Early to be in the block
  - **Required Nights: 2 or 3 (TBD during EC closing plenary)**
  - Cancellation Policy:
  - Cancel prior to Feb 16, 2016



## 802 Plenary March 2016

- Getting to Macao:
  - FYI: <http://www.macao-airport.com/en/flight-information/flight-time-table/arrival>

You can click "Flight Timetable" and review the flight destinations for the Macao airport.

- Ferry from Hong Kong is most common method.
- about 30 Min Ferry from Hong Kong to Macao



## Motion for Required Nights in Macao

- Whereas the requirements for the Room block is 100%, and the room block is used to pay the meeting space,
- Move to require at least a 3 night stay at the Venetian Macao Hotel in order to get the Meeting Registration discount for the 2016 March Plenary.
- Moved: Jon Rosdahl
- 2<sup>nd</sup>: Steve Shellhammer



* Motion #2	Move to require at least a 3 night stay at the Venetian Macao Hotel in order to get the Meeting Registration discount for the 2016 March Plenary.
Moved	Rosdahl
Second	Shellhammer
Results	14-0-0
Motion	Passes
Reference	Agenda Item # 4.08



4.09	MI	Governing Documents Update Approval	Gilb	10	02:21 PM
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Gilb showed the following slides 15-0090-002-00EC

November 2015

ec-15-0090-02-00EC

# IEEE 802 LMSC Operations Manual and IEEE 802 LMSC Working Group Policies and Procedures proposed changes

IEEE 802 LMSC EC

Slide 1

James Gilb (Pulselink)

# Overview

- Files:
  - IEEE\_802\_WG\_PandP\_v17.6.doc
    - Proposed new WG P&P
  - IEEE\_802\_OM\_proposed\_v17.3.pdf
    - Proposed new operations manual
  - IEEE\_802\_OM\_proposed\_v17.3\_with\_changes.pdf
    - Changes from previous version.
- Goal is to approve WG P&P and OM together.

# IEEE 802 LMSC OM proposed changes (To be approved only with approval of WG P&P)

# WG Financial Operations

- Move all text to IEEE 802 LMSC Operations Manual
- Delete reference to modifying the WG P&P as that is in the WG P&P now.
- Minor editorial change in that clause.
- New text is in IEEE\_802\_OM\_proposed\_v17.3.pdf with changes shown in IEEE\_802\_OM\_proposed\_v17.3\_with\_changes.pdf

# Add Industry Connections

- Modifications to OM, WG P&P and Chair's guide lines.
- Small changes, outlined in ec-15-0080-00
- Changes are reflected in proposed OM, WG P&P and CG.

## 4.1.5 Revision of OM and WG P&P

- Revisions to these documents shall be submitted by a Sponsor member to the Sponsor no less than 30 day in advance of a Sponsor Vote to approve them. The Sponsor member proposing the revision may modify the proposed revision during the 30 days prior to a Sponsor Vote (in response to comments). Insufficient time to consider complex modifications is a valid reason to vote disapprove. A motion to revise these documents shall require a vote of approve by at least two thirds of all voting members of the Sponsor. Votes to approve revisions shall be taken at a plenary session. If approved, revisions become effective at the end of the plenary session where the votes were taken.
- We have 6 officers, 10 voting WG/TAG chairs
  - 16 voting members, 2/3 approval is 11 affirmative votes

# Motion

- This motion is brought under the process described in the subclause “Revision of the IEEE 802 LMSC OM and IEEE 802 LMSC WG P&P” of the IEEE 802 LMSC OM.
- IEEE 802 EC approves  
IEEE\_802\_WG\_PandP\_v17.6.doc (to be renumbered as v18) as the new IEEE 802 Working Group Policies and Procedures and  
IEEE\_802\_OM\_proposed\_v17.3.pdf as the new IEEE 802 EC Operations Manual (to be renumbered as v18).
- Moved: Gilb
- Second: D'Ambrosia

## CG updates

- This motion is brought under the normal process of approving actions of the Sponsor.
- Motion: The EC approves IEEE\_802\_Chairs\_guidelines\_v21.pdf as the IEEE 802 LMSC Chair's Guidelines
  - Moved: Gilb
  - Second: D'Ambrosia

* Motion #3	IEEE 802 EC approves IEEE_802_WG_PandP_v17.6.doc (to be renumbered as v18) as the new IEEE 802 Working Group Policies and Procedures and IEEE_802_OM_proposed_v17.3.pdf as the new IEEE 802 EC Operations Manual (to be renumbered as v18).
Moved	Gilb
Second	D'Ambrosia
Results	15-0-0
Motion	Passes
Reference	Agenda Item # 4.09

* Motion #4	The EC approves IEEE_802_Chairs_guidelines_v21.pdf as the IEEE 802 LMSC Chair's Guidelines
Moved	Gilb
Second	D'Ambrosia
Results	15-0-0
Motion	Passes
Reference	Agenda Item # 4.09



4.10	II	Update - Coexistence Test Methodology	Nikolich	5	02:31 PM
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Nikolich gave verbal update of the polls below taken at the 802.19 Coexistence WG Meetings on Coexistence Test Methodology.

#### **Straw Poll #1**

Do you support development of an Unlicensed Wireless Coexistence Test Methodology activity in 802.19?

Yes	5
No	0
Don't Know Yet	20

#### **Straw Poll #2**

Do you support development of a high-level framework of an Unlicensed Wireless Coexistence Test Methodology document focused on 802.11, LAA and LTE-U, in 802.19? This document could be approved by 802.19. The target would be to complete this document by July 2016.

Yes	15
No	0
Don't Know Yet	11

First poll was taken first day. Second poll was taken a couple of days later.

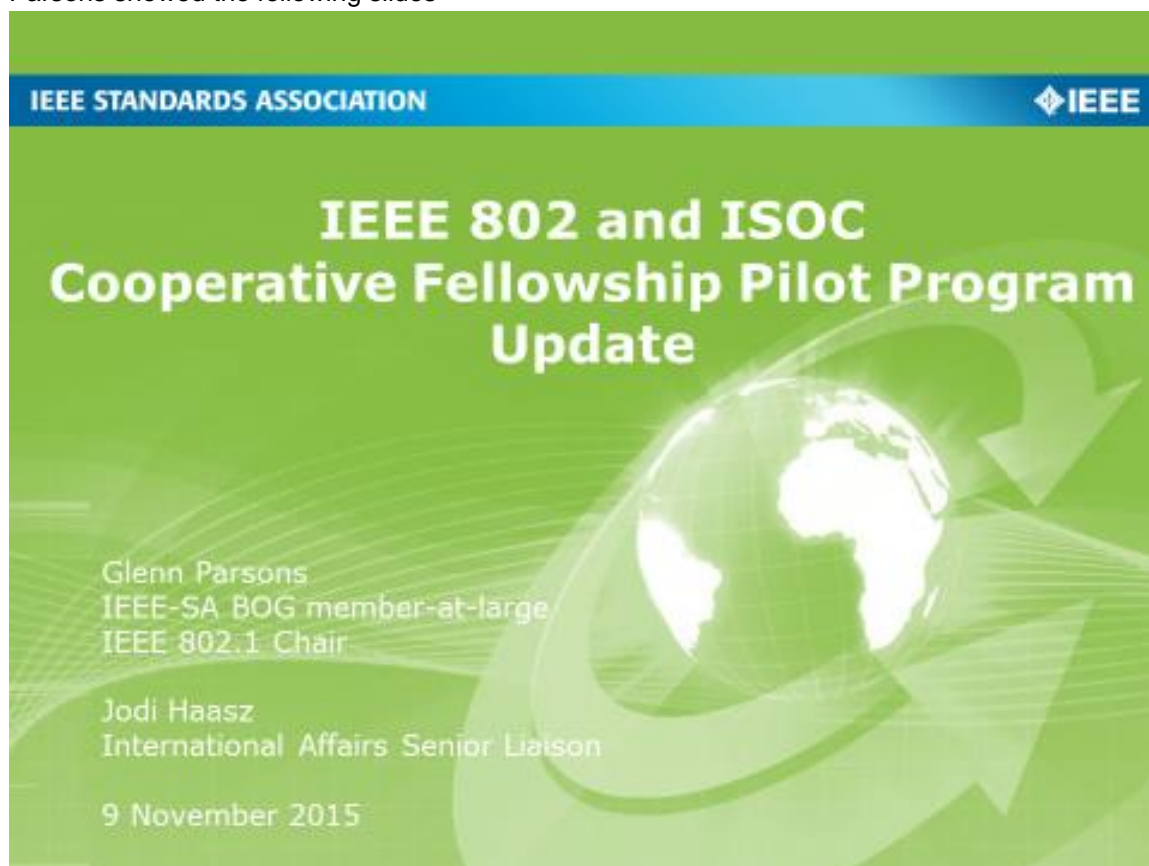
Nikolich to approach Wi-Fi Alliance and Cable Labs to see if they would be willing to support. Conference call on Nov 30 is scheduled. Efforts underway to find someone to lead the effort.

It is not clear yet what the form of the document would be. It was suggested it might be start of a project.

Meeting break @ 3:02pm

Meeting reconvened @ 3:15pm

Parsons showed the following slides



## Fellowships to the November IEEE 802 Plenary

- Nabil Benamar
  - Associate Professor, Moulay Ismail University of Meknes, Morocco
  - Primary and Secondary IEEE 802 WGs of Interest
    - IEEE 802.11
    - IEEE 802.15
  - Mentor for this session
    - Lee Armstrong, IEEE 802.11
- Dessalegn Yehuala
  - Lecturer and Researcher in Computer Science, Addis Ababa University, Ethiopia
  - Primary and Secondary IEEE 802 WGs of Interest:
    - IEEE 802.16
    - IEEE 802.3
  - Mentor for this session
    - Tim Godfrey, IEEE 802.16

# IEEE-SA Fellowship Program Schedule

<b>Sunday</b> <ul style="list-style-type: none"><li>• Brunch (11 am – 1 pm)</li></ul>
<b>Monday</b> <ul style="list-style-type: none"><li>• Breakfast at the Centennial Cafe (7 to 7:45 am)</li><li>• IEEE 802 Executive Committee Opening Session (8 to 9 am)</li><li>• IEEE 802 Newcomer Orientation (9 to 10 am)</li><li>• IEEE 802.11 Newcomer Training Session (1:30- 3:30 pm)</li><li>• IEEE 802 Working Group/Study Group meetings (beginning at 10 am and throughout the day)</li><li>• IEEE 802 Tutorial Sessions (6 to 10:30 pm)</li></ul>
<b>Tuesday</b> <ul style="list-style-type: none"><li>• Breakfast at the Centennial Cafe (7 to 7:45 am)</li><li>• IEEE 802 Working Group/Study Group meetings (beginning at 8 am and throughout the day)</li><li>• 802E (formerly the Privacy EC Study Group) meeting (7:30 – 9:30 pm)</li></ul>
<b>Wednesday</b> <ul style="list-style-type: none"><li>• Breakfast at the Centennial Cafe (7 to 7:45 am)</li><li>• IEEE 802 Working Group/Study Group meetings (beginning at 8 am and throughout the day)</li><li>• Lunch at the Centennial Cafe (12 to 1:30 pm)</li><li>• IEEE 802 Social reception (7:30 – 9:30 pm)</li></ul>
<b>Thursday</b> <ul style="list-style-type: none"><li>• Breakfast at the Centennial Cafe (7 to 7:45 am)</li><li>• IEEE 802 Working Group/Study Group meetings (beginning at 8 am throughout the day)</li></ul>

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## Update

- Fellowship recipients previously attended IETF
- Daily breakfast
  - Gave them an opportunity to touch base with their mentors
  - Opportunity to discuss other technical areas of interest with those from the IEEE 802 EC that attended breakfast
- Overwhelming at first but getting acclimated by Wednesday
- Specific technical area versus a broad range of areas
  - Broad
    - Resulted in narrowing down and identifying new technical areas of interest
  - Specific
    - Focused on one area of technical interest
- Connections were “key”

IEEE STANDARDS ASSOCIATION



## From the Fellows...

- Needed to adjust to the IEEE and 802 vernacular
- Broad range of technical areas
  - Narrowed interest to IEEE 802.1, IEEE 802.11 and IEEE 802.16
- Learned about the IEEE standardization process
- Opportunity to develop contacts/discuss technical questions
- Will share what was learned with academic staff members and students by conducting seminars
- Will share what was learned with the IEEE chapter chair and how our chapter members can benefit from this experience
- "The knowledge gained from the meeting has immense significance in terms of updating networking and data communication course contents as well as future curriculum developments in this area."

## Looking forward to Macau...

- Meeting this evening (13 November) to discuss potential program improvements
- Suggestions can be sent to Glenn Parsons ([glenn.parsons@ericsson.com](mailto:glenn.parsons@ericsson.com)), Karen McCabe ([k.mccabe@ieee.org](mailto:k.mccabe@ieee.org)) and Jodi Haasz ([j.haasz@ieee.org](mailto:j.haasz@ieee.org))

**Thank you to all who participated!**

5.00		IEEE Standards Board and Sponsor Ballot Items			02:56 PM
5.01		IEEE 802.3			02:56 PM
5.011	ME	PAR to NesCom - IEEE P802.3ca Next Generation Ethernet Passive Optical Network (NG-EPON)	Law	3	02:56 PM

Law presented the following slides –

## ME 5.011: New PAR: IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Passive Optical Networks

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### IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Passive Optical Networks

#### Title

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 25 Gb/s, 50 Gb/s, and 100 Gb/s Passive Optical Networks

#### Scope of project

The scope of this project is to amend IEEE Std 802.3 to add physical layer specifications and management parameters for symmetric and/or asymmetric operation at 25 Gb/s, 50 Gb/s, and 100 Gb/s MAC data rates on point-to-multipoint passive optical networks with distance and split ratios consistent with those defined in IEEE Std 802.3-2015.

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## IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Passive Optical Networks PAR and CSD responses

### Need

The project is applicable to business and residential access environments. The project is needed to enable access network operators to provide advanced bandwidth-intensive services while reducing footprint of network equipment, simplifying service upgrades, reducing network upgrade cost, and reducing fiber deployment costs.

### Draft PAR

<http://www.ieee802.org/secmail/pdf/NeUomawRcV.pdf>

### Draft CSD responses

[http://ieee802.org/3/NGEPONSG/documents/100gepon\\_CSD.pdf](http://ieee802.org/3/NGEPONSG/documents/100gepon_CSD.pdf)

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## IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Passive Optical Networks PAR and CSD responses

### Motion

The IEEE 802 LMSC Executive Committee approves the IEEE P802.3ca CSD responses and forwards the IEEE P802.3ca PAR to NesCom

M: Law S: D'Ambrosia

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

### Working Group votes on approval of individual items:

Project Authorization Request:	Y: 102, N: 0, A: 1
Managed objects:	Y: 102, N: 0, A: 1
Coexistence:	Y: 101, N: 0, A: 1
Broad Market Potential criterion:	Y: 101, N: 0, A: 3
Compatibility criterion:	Y: 100, N: 0, A: 1
Distinct Identity criterion:	Y: 99, N: 0, A: 1
Technical Feasibility criterion:	Y: 100, N: 0, A: 1
Economic Feasibility criterion:	Y: 99, N: 0, A: 2

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* Motion #5	The IEEE 802 LMSC Executive Committee approves the IEEE P802.3ca CSD responses and forwards the IEEE P802.3ca PAR to NesCom
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	Passes
Reference	Agenda Item #5.011

5.012	ME	PAR to NesCom -IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper	Law	3	02:59 PM
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Law presented the following slides:

## ME 5.012: New PAR: IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper

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### IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper PAR and CSD responses

#### Title

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation over Backplane and Copper Cables

#### Scope of project

The scope of this project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add 2.5 Gb/s and 5 Gb/s Physical Layer (PHY) specifications and management parameters for operation over channels such as backplanes and twinaxial copper cables consistent with current storage interconnect applications within a single rack.

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## IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper PAR and CSD responses

### Need

There is a greater bandwidth need than the current 1 Gb/s Ethernet connectivity over backplane and copper cable that serves rotational storage devices ("Hard Disk Drives", HDDs). The object based HDD market is expected to grow significantly to meet the growing cloud storage demand and the existing 1 Gb/s solution is already bandwidth limited. While existing 10 Gb/s and higher speed solutions fulfill the bandwidth need for HDD's, they do not lend themselves to optimized system cost. The sustained bandwidth needs for HDD are on the order of 2.5 Gb/s to 5 Gb/s and this new standard will provide an optimized system cost vs. performance solution in this growing market segment

### Draft PAR

[http://ieee802.org/3/CU4HDDSG/P802\\_3cb\\_PAR\\_280915a.pdf](http://ieee802.org/3/CU4HDDSG/P802_3cb_PAR_280915a.pdf)

### Draft CSD responses

<http://ieee802.org/3/CU4HDDSG/CU4HDD%20SG-CSD-v1-2.pdf>

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## IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper PAR and CSD responses

### Motion

The IEEE 802 LMSC Executive Committee approves the IEEE P802.3cb CSD responses and forwards the IEEE P802.3cb PAR to NesCom

M: Law S: D'Ambrosia

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

### Working Group votes :

Project Authorization Request: Y: 54, N: 0, A: 2

Criteria for standards development: Y: 58, N: 0, A: 2

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* Motion #6	The IEEE 802 LMSC Executive Committee approves the IEEE P802.3cb CSD responses and forwards the IEEE P802.3cb PAR to NesCom
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	Passes
Reference	Agenda Item #5.012

5.013	ME	To Sponsor Ballot - IEEE P802.3bp 1000BASE-T1 (conditional)	Law	3	03:02 PM
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Law presented the following slides 10-13

## ME 5.013: IEEE P802.3bp 1000BASE-T1 to Sponsor ballot (conditional)

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## IEEE P802.3bp 1000BASE-T1 to Sponsor ballot (conditional)

### Item 1: Date the ballot closed

The 1st Working Group recirculation ballot on IEEE P802.3bp draft D2.1 closed on 23<sup>rd</sup> October 2015 at 23:59 AoE

### Item 2: Vote tally

	Initial Draft D2.0			1 <sup>st</sup> Recirculation Draft D2.1			Req %
	#	%	Status	#	%	Status	
Abstain	16	11	PASS	16	11	PASS	< 30
Disapprove with comment	17	-	-	0	-	-	-
Disapprove w/o comment	0	-	-	0	-	-	-
Approve	115	87	PASS	143	100	PASS	≥ 75
Ballots returned	148	53	PASS	159	57	PASS	> 50
Voters	278	-	-	278	-	-	-
Comments	315	-	-	139*	-	-	-

\* Includes 13 comments received after close of ballot

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## IEEE P802.3bp 1000BASE-T1 to Sponsor ballot (conditional)

Item 3: Comments that support the remaining disapprove votes and WG responses

None (100% approval)

Item 4: Recirculation ballot and resolution meeting schedule

2nd Working Group recirculation ballot day one	18 <sup>th</sup> November 2015
2nd Working Group recirculation ballot close date	2 <sup>nd</sup> December 2015
IEEE P802.3bp comment resolution meeting	10 <sup>th</sup> December 2015
3rd Working Group recirculation ballot day one	17 <sup>th</sup> December 2015
3rd Working Group recirculation ballot close date	10 <sup>th</sup> January 2016
IEEE P802.3bp comment resolution meeting	Week of 17 <sup>th</sup> January 2016

Note: 3rd Sponsor recirculation ballot only if required

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## IEEE P802.3bp 1000BASE-T1 to Sponsor ballot (conditional)

### Motion

The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bp 1000BASE-T1 CSD responses (grandfathered 5 Criteria responses) available at the URL <<http://ieee802.org/3/bp/5Criteria.pdf>> and grants conditional approval to forward IEEE P802.3bp to Sponsor ballot

M: Law S: D'Ambrosia

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

Working Group vote

Y: 119, N: 0, A: 0

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* Motion #7	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bp 1000BASE-T1 CSD responses (grandfathered 5 Criteria responses) available at the URL < <a href="http://ieee802.org/3/bp/5Criteria.pdf">http://ieee802.org/3/bp/5Criteria.pdf</a> > and grants conditional approval to forward IEEE P802.3bp to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.013

5.014	ME	To Sponsor Ballot - IEEE P802.3bq 25G/40GBASE-T (conditional)	Law	3	03:05 PM
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Law presented the following slides.

## ME 5.013: IEEE P802.3bq 25G/40GBASE-T to Sponsor ballot (conditional)

## IEEE P802.3bq 25G/40GBASE-T to Sponsor ballot (conditional)

### Item 1: Date the ballot closed

The 3rd Working Group recirculation ballot on IEEE P802.3bq draft D2.3 closed on 31<sup>st</sup> October 2015 at 23:59 AoE

### Item 2: Vote tally

	Initial Draft D2.0			1 <sup>st</sup> Recirculation Draft D2.1			2 <sup>nd</sup> Recirculation Draft D2.2			3 <sup>rd</sup> Recirculation Draft D2.3			Req %
	#	%	Status	#	%	Status	#	%	Status	#	%	Status	
Abstain	37	25	PASS	36	24	PASS	32	20	PASS	30	18	PASS	< 30
Dis with comment	20	-	-	20	-	-	15	-	-	4	-	-	-
Dis w/o comment	1	-	-	0	-	-	0	-	-	0	-	-	-
Approve	93	82	PASS	99	83	PASS	117	88	PASS	136	91	PASS	≥ 75
Ballots returned	151	55	PASS	155	56	PASS	164	59	PASS	170	62	PASS	> 50
Voters	274	-	-	274	-	-	274	-	-	274	-	-	-
Comments	489	-	-	119	-	-	111	-	-	149	-	-	-

Note: 25GBASE-T added to project scope after 2<sup>nd</sup> recirculation ballot, hence 3<sup>rd</sup> recirculation was 30 days with entire draft in scope

## IEEE P802.3bq 25G/40GBASE-T to Sponsor ballot (conditional)

Item 3: Comments that support the remaining disapprove votes and WG responses

5 unresolved negative comments from 3 commenters

See <<http://ieee802.org/secmail/pdfqgPxn9bm89.pdf>>

Item 4: Recirculation ballot and resolution meeting schedule

4th Working Group recirculation ballot day one	18 <sup>th</sup> November 2015
4th Working Group recirculation ballot close date	2 <sup>nd</sup> December 2015
IEEE P802.3bq comment resolution meeting	11 <sup>th</sup> December 2015 (morning)
5th Working Group recirculation ballot day one	17 <sup>th</sup> December 2015
5th Working Group recirculation ballot close date	10 <sup>th</sup> January 2016
IEEE P802.3bq comment resolution meeting	Week of 17 <sup>th</sup> January 2016

Note: 5th Working Group recirculation ballot only if required

## IEEE P802.3bq 25G/40GBASE-T to Sponsor ballot (conditional)

### Motion

The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bq 25G/40GBASE-T CSD responses available at the URL <<https://mentor.ieee.org/802-ec/dcn/15/ec-15-0069-00-ACSD-802-3bq.pdf>> and grants conditional approval to forward IEEE P802.3bq to Sponsor ballot

M: Law S: D'Ambrosia

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

Working Group vote

Y: 115, N: 0, A: 3

Law presented unresolved comments. [See attached file, IEEE\\_P802d3bq\\_unresolved\\_131115.pdf](#)

* Motion #8	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bq 25G/40GBASE-T CSD responses available at the URL < <a href="https://mentor.ieee.org/802-ec/dcn/15/ec-15-0069-00-ACSD-802-3bq.pdf">https://mentor.ieee.org/802-ec/dcn/15/ec-15-0069-00-ACSD-802-3bq.pdf</a> > and grants conditional approval to forward IEEE P802.3bq to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.014

5.015	ME	To Sponsor Ballot - IEEE P802.3br Interspersing Express Traffic (conditional)	Law	3	03:08 PM
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Law presented the following slides

## ME 5.015: IEEE P802.3br Interspersing Express Traffic to Sponsor ballot (conditional)

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### IEEE P802.3br Interspersing Express Traffic to Sponsor ballot (conditional)

#### Item 1: Date the ballot closed

The second 1st Working Group recirculation ballot on IEEE P802.3br draft D2.3 closed on 7<sup>th</sup> November 2015 at 23:59 AoE

#### Item 2: Vote tally

	First initial Draft D2.0			First 1 <sup>st</sup> Recirc Draft D2.1			Second initial Draft D2.2			Second 1 <sup>st</sup> Recirc Draft D2.3			Req %
	#	%	Status	#	%	Status	#	%		#	%	Status	
Abstain	51	37	FAIL	49	34	FAIL	32	22	PASS	33	22	PASS	< 30
Dis with comment	16	-	-	15	-	-	7	-	-	6	-	-	-
Dis w/o comment	1	-	-	0	-	-	0	-	-	0	-	-	-
Approve	72	81	PASS	81	84	PASS	109	93	PASS	115	95	PASS	≥ 75
Ballots returned	140	50	PASS	145	52	PASS	148	53	PASS	154	55	PASS	> 50
Voters	275	-	-	275	-	-	279	-	-	32	-	-	-
Comments	387	-	-	116	-	-	51	-	-	32	-	-	-

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## IEEE P802.3br Interspersing Express Traffic to Sponsor ballot (conditional)

Item 3: Comments that support the remaining disapprove votes and WG responses

12 unresolved negative comments from 5 commenters

See: <<http://ieee802.org/secmail/pdf313VcEKpQQ.pdf>>

Item 4: Recirculation ballot and resolution meeting schedule

2nd Working Group recirculation ballot day one 23rd November 2015

2nd Working Group recirculation ballot close date 7th December 2015

IEEE P802.3br comment resolution meeting 10th December 2015 (afternoon)

3rd Working Group recirculation ballot day one 17th December 2015

3rd Working Group recirculation ballot close date 10th January 2016

IEEE P802.3br comment resolution meeting Week of 17th January 2016

Note: 3rd Working Group recirculation ballot only if required.

## IEEE P802.3br Interspersing Express Traffic to Sponsor ballot (conditional)

### Motion

The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3br Interspersing Express Traffic CSD responses (grandfathered 5 Criteria responses) available at the URL

<[http://ieee802.org/3/br/8023-DMLT-SG-1311-Winkel-](http://ieee802.org/3/br/8023-DMLT-SG-1311-Winkel-5C-Approved.pdf)

[5C-Approved.pdf](http://ieee802.org/3/br/8023-DMLT-SG-1311-Winkel-5C-Approved.pdf)> and grants conditional approval to forward IEEE P802.3br to Sponsor ballot

M: Law S: D'Ambrosia

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

Working Group vote

Y: 97, N: 3, A: 19

## IEEE P802.3br comment topics

9 comments from initial ballot plus 2 pile on from recirc

Participation level/market need

Terminology (1 comment plus 2 pile-on)

Objection to adding an optional parameter to Time

Synchronization Service Interface (TSSI) (2 comments  
– 1 for each primitive)

Asserts MAC change

Editorial objection to “conjunction” accepted in principle

Objection to new primitive

New delimiters (2 comments from one voter)

1 new disapprove comment on recirculation:

Wants “shall” on LLDP TLV usage rather than “should”

Law presented unresolved comments. [See attached file, IEEE\\_P802d3br\\_unresolved\\_131115.pdf](#)

* Motion #9	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3br Interspersing Express Traffic CSD responses (grandfathered 5 Criteria responses) available at the URL < <a href="http://ieee802.org/3/br/8023-DMLT-SG-1311-Winkel-5C_Approved.pdf">http://ieee802.org/3/br/8023-DMLT-SG-1311-Winkel-5C_Approved.pdf</a> > and grants conditional approval to forward IEEE P802.3br to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.015



5.016	ME	To Sponsor Ballot - IEEE P802.3by 25 Gb/s Ethernet (unconditional)	Law	3	03:11 PM
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Law presented the following slides:

## ME 5:016: IEEE P802.3by 25 Gb/s Ethernet to Sponsor ballot (unconditional)

### IEEE P802.3by 25 Gb/s Ethernet to Sponsor ballot (unconditional)

#### Item 1: Date the ballot closed

The 2nd Working Group recirculation ballot on IEEE P802.3by draft D2.2 closed on 5<sup>th</sup> November 2015 at 23:59 AoE

#### Item 2: Vote tally

	Initial Draft D2.0			1 <sup>st</sup> Recirculation Draft D2.1			2 <sup>nd</sup> Recirculation Draft D2.2			Req %
	#	%	Status	#	%	Status	#	%	Status	
Abstain	8	6	PASS	8	6	PASS	8	5	PASS	< 30
Dis with comment	23	-	-	11	-	-	3	-	-	-
Dis w/o comment	0	-	-	0	-	-	0	-	-	-
Approve	111	82	PASS	139	92	PASS	151	98	PASS	≥ 75
Ballots returned	142	51	PASS	158	56	PASS	162	58	PASS	> 50
Voters	278	-	-	278	-	-	278	-	-	-
Comments	240	-	-	109	-	-	11	-	-	-

## IEEE P802.3by 25 Gb/s Ethernet to Sponsor ballot (unconditional)

Item 3: Comments that support the remaining disapprove votes and WG responses

10 unresolved negative comments from 3 commenters

See: <<http://ieee802.org/secmail/pdf/JJOAgHvozH.pdf>>

4 unresolved negative comments on 2nd recirculation were restatements

No changes made to the draft

Item 4: Recirculation ballot and resolution meeting schedule

Not applicable

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## IEEE P802.3by 25 Gb/s Ethernet to Sponsor ballot (unconditional)

Motion

The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3by 25 Gb/s Ethernet CSD responses available at the URL <[http://ieee802.org/3/by/P802\\_3by\\_CSD.pdf](http://ieee802.org/3/by/P802_3by_CSD.pdf)> and grants conditional approval to forward IEEE P802.3by to Sponsor ballot

M: Law S: D'Ambrosia

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

Working Group vote

Y: 105, N: 0, A: 2

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Law presented unresolved comments. [See attached file, IEEE\\_P802d3by\\_unresolved\\_131115.pdf](#)

* Motion #10	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3by 25 Gb/s Ethernet CSD responses available at the URL < <a href="http://ieee802.org/3/by/P802_3by_CSD.pdf">http://ieee802.org/3/by/P802_3by_CSD.pdf</a> > and grants unconditional approval to forward IEEE P802.3by to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	Passes
Reference	Agenda Item #5.016

5.017	ME	To Sponsor Ballot -IEEE P802.3bn EPON Protocol over Coax (EPoC) (conditional)	Law	3	03:14 PM
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Law presented the following slides 26 – 29

## ME 5.017: IEEE P802.3bn EPON Protocol over Coax (EPoC) to Sponsor ballot (conditional)

### IEEE P802.3bn EPON Protocol over Coax (EPoC) to Sponsor ballot (conditional)

#### Item 1: Date the ballot closed

The 1st Working Group recirculation ballot on IEEE P802.3bn draft D2.1 closed on 29<sup>th</sup> October 2015 at 23:59 AoE

#### Item 2: Vote tally

	Initial Draft D2.0			1 <sup>st</sup> Recirculation Draft D2.1			Req %
	#	%	Status	#	%	Status	
Abstain	25	18	PASS	26	18	PASS	< 30
Disapprove with comment	9	-	-	2	-	-	-
Disapprove w/o comment	0	-	-	0	-	-	-
Approve	109	92	PASS	120	98	PASS	≥ 75
Ballots returned	143	51	PASS	148	53	PASS	> 50
Voters	278	-	-	278	-	-	-
Comments	524	-	-	133	-	-	-

## IEEE P802.3bn EPON Protocol over Coax (EPoC) to Sponsor ballot (conditional)

Item 3: Comments that support the remaining disapprove votes and WG responses

17 unresolved negative comments from 2 commenters

See: <<http://ieee802.org/secmail/pdfaFeDagBksH.pdf>>

Item 4: Recirculation ballot and resolution meeting schedule

2nd Working Group recirculation ballot day one	23 <sup>rd</sup> November 2015
2nd Working Group recirculation ballot close date	7 <sup>th</sup> December 2015
IEEE P802.3bn comment resolution meeting	16/17 <sup>th</sup> December 2015
3rd Working Group recirculation ballot day one	22 <sup>nd</sup> December 2015
3rd Working Group recirculation ballot close date	15 <sup>th</sup> January 2016
IEEE P802.3bn comment resolution meeting	Week of 17 <sup>th</sup> January 2016

Note: 3rd Sponsor recirculation ballot only if required

Version 1.8

IEEE 802.3 Closing EC Items – November 2015 Plenary

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## IEEE P802.3bn EPON Protocol over Coax (EPoC) to Sponsor ballot (conditional)

### Motion

The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bn EPoC CSD responses (grandfathered 5 Criteria responses) available at the URL <<http://ieee802.org/3/bn/5Criteria.pdf>> and grants conditional approval to forward IEEE P802.3bn to Sponsor ballot

M: Law S: D'Ambrosia  
Y: ??, N: ??, A: ??

Working Group vote  
Y: 122, N: 0, A: 0

Version 1.8

IEEE 802.3 Closing EC Items – November 2015 Plenary

Page 29

Law presented unresolved comments. [See attached file, IEEE\\_P802d3bn\\_unresolved\\_131115.pdf](#)

* Motion #11	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bn EPoC CSD responses (grandfathered 5 Criteria responses) available at the URL < <a href="http://ieee802.org/3/bn/5Criteria.pdf">http://ieee802.org/3/bn/5Criteria.pdf</a> > and grants conditional approval to forward IEEE P802.3bn to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Passes without objection
Motion	Passes
Reference	Agenda Item #5.017

5.02	-	IEEE 802.11	Stephens	0	03:17 PM
5.03		IEEE 802.15			03:17 PM
5.031	ME	To Sponsor Ballot - IEEE 802.15.3m Revision conditional	Heile	3	03:17 PM

Heile presented the following slides 9 -14

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.3m REVa to Sponsor Ballot (conditional)

Submission

Slide 9

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.3m REVa Ballot History

- WG ballot closed: 22 October 2015
- Ballot tally: 74 yes, 2 no, 4 abstain (97% approve)
  - One NO voter has changed to YES in current recirculation.
  - Remaining NO voter has identified only one comment as remaining unsatisfied (see next page)

Submission

Slide 10

Bob Heile, Wi-SUN Alliance

## Comment supporting no vote

- Comment: As association request and response are not protected at all, what happens if the rogue PNC will asking joining member wrong DEVID, which is duplicate with someone already in the network. When the valid DEV then tries send authenticated frames to the real PNC using wrong DEVID, there will be nonce collisions. Is there something in the system that will prevent this? As the security message frames are not authenticated either, that means that attacker can do address translation for them too, i.e., change the address of the frame from the one that DEV thinks he has to the one that real PNC thinks he has, and other way around. Unless the security protocol run over those messages specifically authenticate the DEVID of the device, and not the full 48-bit address of the device, this phase will not detect this attack. After the security protocol, I think the device moves to use the encrypted frames, thus it might cause collision.
- Suggested resolution: blank
- Response Rejected: The Security Message command was introduced to allow 4-way handshake key agreement protocols (or 3-way for key agreements like ECMQV). The frames are authenticated by the handshake process and at this point, the DEV does not have a symmetric key and therefore, authentication is meaningless. The key agreement protocol will ensure the identities of the DEVs.
- As for a rogue PNC assigning an invalid DEVID, the attempt to authenticate with the true PNC would fail (it checks the DEVID).
- No change required.

## 802.15.3m- Recirculation schedule

- Current recirculation ends 15 November 2015
- BRC conference
  - 18 November 2015
- Recirculation #2:
  - 20 November 2015 to 5 December 2015
- BRC conference call
  - 7 December 2015
- Recirculation #3 if needed
  - 9 December 2015 to 24 December 2015

## 802.15.3m to Sponsor– WG CSD Motion

*Move that the 802.15 WG, having reviewed the CSD statement 15-15-0332-00 associated with P802.15.3m, approve this CSD statement.*

Moved: Ben Rolfe

Second: Thomas Kuerner

(WG vote: 40-0-0)

Submission

Slide 13

Bob Heile, Wi-SUN Alliance

## 802.15.3m to Sponsor-EC motion

The 802.15 WG requests conditional approval from the EC to submit 802.15.3-REVa draft to Sponsor Ballot

(WG vote: 41-0-2)

Moved: Heile

Second: Gilb

Submission

Slide 14

Bob Heile, Wi-SUN Alliance

* Motion #12	The 802.15 WG requests conditional approval from the EC to submit 802.15.3-REVa draft to Sponsor Ballot
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.031

5.032	ME	To RevCom - IEEE 802.15.4mc Revision 3 (unconditional)	Heile	3	03:20 PM
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Heile presented the following slides-

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## Phasing of 802.15.4 drafts to RevCom

- 15.4 REVc rolls up e, f, g, j, k, m, and p
- In the active pipeline are n, q, r, and s
- In order to get the Revision done, we put a stake in the ground not to submit any further amendments to RevCom until the Revision was complete
- Currently 15.4n and 15.4q are complete (apart from updating the Revision references) and are awaiting the completion of the Revision
- Although the reference updates are editorial the recommendation was made to recirculate 15.4n and 15.4q again anyway after updating the references
- Target is to submit 15.4n and 15.4q to the RevCom meeting following the meeting where the Revision is approved (Target is this December).

Submission

Slide 15

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4mc Draft to RevCom (unconditional)

Submission

Slide 16

Bob Heile, Wi-SUN Alliance



## 802.15.4mc Ballot History

- Initial Sponsor Ballot (P802.15.4-REVC-D00)
  - Closed 8 May 2015
- Cumulative vote results (pool of 137 voters)
  - 117 responses (85% response ratio)
  - 104 yes, 6 no (94% approval ratio)
  - 7 abstain (5% abstain ratio)
- 453 comments from 17 commenters
  - 172 marked as MBS
  - Comment resolution database worksheet:
    - <https://mentor.ieee.org/802.15/dcn/15/15-15-0344-25>

Submission

Slide 17

Bob Heile, Wi-SUN Alliance

## 802.15.4mc Ballot History

- Sponsor Ballot Recirc 1: Closed 25th October 2015
- Vote results (pool of 137 voters)
  - 120 responses (87% response ratio)
  - 111 yes, 2 no (98% approval ratio) (No new NO voters, 1 repeat)
  - 7 abstain (5% abstain ratio)
- 123 comments from 5 commenters
  - 63 MBS Comments from the 1 repeat No Voter
  - There were no new valid MBS comments
    - <https://mentor.ieee.org/802.15/dcn/15/15-15-0876-01>
  - Comment resolution database worksheet:
    - <https://mentor.ieee.org/802.15/dcn/15/15-15-0344-25>

Submission

Slide 18

Bob Heile, Wi-SUN Alliance

## Summary of MBS comments from “No” voter Michael Bahr

- Michael Bahr submitted 63 MBS comments, none valid
  - See <https://mentor.ieee.org/802.15/dcn/15/15-15-0876-01>)
- Comments related to inserting a mode called Low Latency Deterministic Network (LLDN) into the draft:
- Background for those who are curious-
  - LLDN mode was in the 802.15.4e amendment
  - Before the WG Letter Ballot on this draft, the maintenance committee determined that LLDN had numerous errors and was not operable as described in 802.15.4e
  - The LLDN author and only champion, Michael Bahr, had stopped attending the 802.15 meetings and was not on any reflectors
  - Given that and no other support within 802.15, the decision was made to remove it
  - There were no comments made during the WG letter ballot concerning its removal.
  - During Sponsor Ballot comment resolution, emails were sent to Michael Bahr on 3 June, 14 July (3), 16 July, 17 July, 18 August, and 19 August regarding this issue. He did agree that there were significant flaws
  - A final email, on 29 Oct, advised Michael of the BRC’s decision to leave the draft as is.

Submission

Slide 19

Bob Heile, Wi-SUN Alliance

## Summary of MBS comments from “No” voter James Gilb

- There were 40 MBS comments received on the initial ballot
- On 9 November 2015, Dr. Gilb sent an email to B Heile and P Kinney stating: “The remaining comments I am dissatisfied with are: i-443, i-439, i-438, i-430. I accept the resolutions to all other comments.”
- Comment i-430 is about Time-Slot Relaying based Link Extension (TRLE) mode of range extension for Low Energy Critical Infrastructure Monitor (LECIM) devices. This comment was rejected
- Comments i-438, i-439, and i-443 concern aspects of the guaranteed time slot Deterministic and Synchronous Multi-channel Extension (DSME) mode. Disposition Status on these 3 comments is “Revised”

Details in-- <https://mentor.ieee.org/802.15/dcn/15/15-15-0344-25>

Submission

Slide 20

Bob Heile, Wi-SUN Alliance

## EC motion for 802.15.4mc

802.15 requests approval from the EC to submit the P802.15-REVc-D02 draft to RevCom.

WG vote (42-0-1)

Moved: Heile,

Second: Gilb

Note: There is no 5C or CSD associated with this project

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Submission

Slide 21

Bob Heile, Wi-SUN Alliance

* Motion #13	802.15 requests approval from the EC to submit the P802.15-REVc-D02 draft to RevCom.
Moved	Heile
Second	Gilb
Results	Approved with objection
Motion	passes
Reference	Agenda Item #5.032

5.033	ME	To RevCom - IEEE 802.15.4n China Medical Band (conditional)	Heile	3	03:23 PM
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Heile presented slides 22 – 28

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4n Draft to RevCom (conditional)

Submission

Slide 22

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4n Ballot History

Initial Ballot Open Date: 08-Feb-2015

Initial Ballot Close Date: 10-Mar-2015

64 eligible people in this ballot group.

54 votes received = 84% returned

3% abstention

### APPROVAL RATE

48 affirmative votes

4 negative votes with comments

52 votes = 92% affirmative

Comments: 48, Must Be Satisfied Comments: 34

Submission

Slide 23

Bob Heile, Wi-SUN Alliance

## 802.15.4n Ballot History

Recirc 1 Ballot Open Date: 12-Jun-2015

Recirc 1 Ballot Close Date: 22-Jun-2015

64 eligible people in this ballot group.

54 votes received = 84% returned

5% abstention

### APPROVAL RATE

50 affirmative votes

3 abstentions

1 negative votes with comments (from prior ballot)

51 votes = 98% affirmative

Comments: 1, Must Be Satisfied Comments: 0

(Comment was: This draft meets all editorial requirements)

There were no new NO voters or MBS comments

Submission

Slide 24

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 15.4n No Voter MBS Comment Summary

Optional GFSK modes of modulation index 0.5 or 1.0?	Yes	Modulation Index 0.5 or 1.0 gives the application vendors more flexibility.	Rejected	Modulation Index 0.5 or 1.0 gives the application vendors more flexibility.
Even allowing for the fact that the radio specifications are such low hanging fruit as to make publishing them a waste of both trees and ink, +16 dB for 50 kbit/s and 100 kbit/s, and +1 dB for 200 kbit/s is laughable. If that was all a CMB radio could achieve I'd be looking at an alternative technology.	Yes	Delete receiver interference rejection specification	Revised	Remove subclause 22.2.4.6 Receiver interference rejection. After removing this subclause, rearrange subclause number in the spec.
Even allowing for the fact that the radio specifications are such low hanging fruit as to make publishing them a waste of both trees and ink, +16 dB for 50 kbit/s and 100 kbit/s, and +1 dB for 200 kbit/s for ALTERNATE channel rejection is an insult. If that was all a CMB radio could achieve I'd be looking at an alternative technology.	Yes	Delete receiver interference rejection specification	Revised	Delete line 21 to 25, remove subclause 22.13.4. After removing the subclause 22.13.4, rearrange the subclause number in the spec.

<https://mentor.ieee.org/802.15/15-15-0394-04-004n-sb01-comment-and-resolution-for-tg4n.xls>

Submission

Slide 25

Bob Heile, Wi-SUN Alliance

## 802.15.4n Timeline

- After approval of the 15.4 Revision at the December SASB meetings, update the references in the 15.4n draft to conform with the approved Revision
- All the references are editorial
- Recirculate the updated 15.4n draft-  
Target Schedule: Dec 7-17, 2015
- Assuming conditions are met, submit for approval at the March 2016 RevCom meeting

Submission

Slide 26

Bob Heile, Wi-SUN Alliance

## 802.15.4n 5C WG Motion

- *Move that the 802.15 WG, having reviewed the 5C statement 15-12-0007-05 associated with P802.15.4n, approve this 5C statement.*

Moved: Ken Mori

Second: Ben Rolfe

(WG Vote: 44-0-0)

Submission

Slide 27

Bob Heile, Wi-SUN Alliance

## 802.15.4n to RevCom –EC Motion

- 802.15 requests conditional approval from the EC to submit the IEEE P802.15.4n-D5.0 draft or final version to RevCom

(WG vote: 43-0-1)

Moved: Heile

Second: Gilb

Submission

Slide 28

Bob Heile, Wi-SUN Alliance

* Motion #14	802.15 requests conditional approval from the EC to submit the IEEE P802.15.4n-D5.0 draft or final version to RevCom and re-confirms the 5C.
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.033

5.034	ME	To RevCom - IEEE 802.15.4q Ultra Low Power (conditional)	Heile	3	03:26 PM
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Heile presented the following slides –

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## IEEE 802.15.4q - Conditional Approval to Submit to RevCom

Submission

Slide 29

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4q Sponsor Ballot History

Initial Ballot - closed on 25 July, 2015

- Vote results (pool of 92 voters)
  - 77 responses (83% response ratio)
  - 66 yes, 6 no (91% approval ratio)
  - 5 abstain (6% abstain ratio)

158 total comments received

79 “Must Be Satisfied”

(28 accepted, 29 revised, 21 rejected, 1 withdrawn)

Submission

Slide 30

Bob Heile, Wi-SUN Alliance



## 802.15.4q Sponsor Ballot History (cont'd)

### Recirculation Ballot 1 - closed on 17 Sept., 2015

- Vote results (pool of 92 voters)
  - 81 responses (88% response ratio)
  - 71 yes, 6 no (92% approval ratio)
  - 4 abstain (4% abstain ratio)

77 total comments received

37 "Must Be Satisfied"

(5 accepted, 15 revised, 17 rejected)

Submission

Slide 31

Bob Heile, Wi-SUN Alliance

## 802.15.4q Sponsor Ballot History (cont'd)

### Recirculation Ballot 2 - closed on 11 Oct., 2015

- Vote results (pool of 92 voters)
  - 82 responses (89% response ratio)
  - 75 yes, 3 no (96% approval ratio)
  - 4 abstain (4% abstain ratio)

11 total comments received

1 comment withdrawn, 10 comments remaining

0 "Must Be Satisfied"

No new NO voters and no new MBS comments

Submission

Slide 32

Bob Heile, Wi-SUN Alliance

## 802.15.4q Comment from Editorial Coordination Staff

- MEC (Oct 2015): “This draft meets all editorial requirements.”

Submission

Slide 33

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## Summary of MBS Comments

- 89 total “Must Be Satisfied” comments received from the 3 remaining NO voters over the 3 ballots (includes repeat comments)
  - 62 were accepted or revised
  - 27 were rejected (including repeats)
    - Excluding repeats (same comment from the same voter), there are 18 unique rejected comments
- All comments & resolutions have been recirculated at least once
- There were no new NO voters or new MBS comments on the last ballot

The 27 unsatisfied comments and resolutions (including repeats) from the 3 remaining no-voters have been copied to doc ([15-15-0890-00-004q-p802-15-4q-sb-remaining-no-voters-unsatisfied-comments.xlsx](#)) for easy reference with filters

The full Consolidated Comment Resolution Spreadsheet for all ballots can be found at: [15-15-0889-00-004q-p802-15-4q-sb-aggregated-comment-resolution.xlsx](#)

Submission

Slide 34

Bob Heile, Wi-SUN Alliance

## SB Recirc. 2 - Drill Down

- 3 outstanding NO Voters from prior ballots
- All 3 outstanding NO Voters did not respond to Recirc2 and 1 has not responded since Recirc1.
- On Recirc2, there were 11 comments received but none marked "must be satisfied"
- 1 Comment has since been withdrawn.
- Of the 10 remaining, 9 are editorial, 1 is technical which was rejected

The 11 comments and resolutions from the 2<sup>nd</sup> recirc. SB can be found in ([15-15-0793-01-004q-sb-recirc-2-comment.xlsx](#)).

Submission

Slide 35

Bob Heile, Wi-SUN Alliance

## 802.15.4q Next Steps/Timeline

- After approval of the 15.4 Revision at the December SASB meetings, update the references in the 15.4q draft to conform with the approved Revision
- All the references are editorial
- Recirculate the updated 15.4q draft-  
Target Schedule: Dec 7-17, 2015
- Assuming conditions are met, submit for approval at the March 2016 RevCom meeting

Submission

Slide 36

Bob Heile, Wi-SUN Alliance

## 802.15.4q to RevCom-WG 5C Motion

*Move that the 802.15 WG, having reviewed the 5C statement 15-12-0387-06 associated with P802.15.4q, approve this 5C statement*

- Moved: Chiu Ngo
  - Seconded: John Notor
- (WG vote: 37-0-3)

Submission

Slide 37

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4q to RevCom-EC Motion

802.15 Working Group requests conditional approval from the EC to submit the 802.15.4q draft D7.0 or final version, to RevCom.

(WG vote: 37-0-5)

Moved: Heile  
Seconded: Chaplin

Submission

Slide 38

Bob Heile, Wi-SUN Alliance

* Motion #15	802.15 Working Group requests conditional approval from the EC to submit the 802.15.4q draft D7.0 or final version, to RevCom and reconfirms the 5C.
Moved	Heile
Second	Chaplin
Results	12-1-2
Motion	Passes
Reference	Agenda Item #5.034

5.035	ME	PAR to NesCom - IEEE 802.15.3d Change PAR	Heile	3	03:29 PM
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Heile presented the following slides-

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.3d Change PAR/CSD to NesCom

Accepted all comments received except:

- 5.2a and 5.2b seem to be orders of magnitude different in the expected speeds and bands covered. Should the Scope be amended by this amendment to include the extra bands and speeds? An Amendment is a good time to adjust the scope of the base standard.

*Response: We do not agree that action is needed now. 5.2a is the scope of the base standard as it appears in the current 15.3 Revision and in amendment 15.3e. As such, it is not something that can be changed predictably via an amendment especially since it is dependent on the order of completion of the amendments. While the speed is significantly higher, it is still above above 200 Mb/s specified in the base standard scope, so there no misstatement. The proper place to make this update is in the next revision.*

Submission

Slide 3

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.3d Change PAR/CSD to NesCom

- The 802.15 WG requests the EC approve the 802.15.3d CSD (15-15-0683-01-003d) and further approve forwarding the 802.15.3d Change PAR (15-15-0682-02-003d) to NesCom

(WG vote: 40-0-0)

Moved: Heile

Second: Gilb

Submission

Slide 4

Bob Heile, Wi-SUN Alliance

* Motion #16	The 802.15 WG requests the EC approve the 802.15.3d CSD (15-15-0683-01-003d) and further approve forwarding the 802.15.3d Change PAR (15-15-0682-02-003d) to NesCom
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.035

Heile presented the following slides

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4t Amendment PAR/CSD to NesCom

All comments were accepted except:

- 4t PAR: 5.2a – change "devices operating various license-free" to "devices operating in various license-free"

*Response: Agree in Principal. Hard to predict whether this typo correction will stick since the order of 15.4 amendment completion is unknown. In any event we will make the correction in the next revision.*

- 4t PAR: 5.2a – What is the battery consumption requirements (car battery or coin cell for example)?

*Response: Base standard scope is not something we can reliably modify through an amendment. We will address this in the scope of the next revision.*

Submission

Slide 5

Bob Heile, Wi-SUN Alliance

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4t Amendment PAR/CSD to NesCom

- The 802.15 WG requests the EC approve the 802.15.4t CSD (15-15-0739-01) and further approve forwarding the 802.15.4t Amendment PAR (15-15-0738-01) to NesCom

(WG vote: 25-0-1)

Moved: Heile

Second: Gilb

Submission

Slide 6

Bob Heile, Wi-SUN Alliance

* Motion #17	The 802.15 WG requests the EC approve the 802.15.4t CSD (15-15-0739-01) and further approve forwarding the 802.15.4t Amendment PAR (15-15-0738-01) to NesCom
Moved	Heile
Second	Gilb
Results	9-3-3
Motion	Passes
Reference	Agenda Item #5.036

Heile presented the following slides-

November 2015 doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4u Amendment PAR/CSD to NesCom

Accepted all comments received except:

- 5.5 – Suggest use “W” for “watts”

*Response: We appreciate the suggestion but feel using the full word is clearer*

Submission Slide 7 Bob Heile, Wi-SUN Alliance

November 2015 doc.: IEEE 802.15-15-0955-00-0000

## 802.15.4u Amendment PAR/CSD to NesCom

- The 802.15 WG requests the EC approve the 802.15.4u CSD (15-15-0755-01) and further approve forwarding the 802.15.4u Amendment PAR (15-15-0754-01) to NesCom

(WG vote: 24-1-1)

Moved: Heile

Second: Gilb

Submission Slide 8 Bob Heile, Wi-SUN Alliance

* Motion #18	The 802.15 WG requests the EC approve the 802.15.4u CSD (15-15-0755-01) and further approve forwarding the 802.15.4u Amendment PAR (15-15-0754-01) to NesCom
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.037

<b>5.04</b>		<b>IEEE 802.16</b>			<b>03:38 PM</b>
5.041	ME	PAR withdrawal - IEEE 802.16.3	Marks	<b>3</b>	<b>03:38 PM</b>

Marks requested the following motion. A verbal summary of the status of the project was provided, as it is trying to be moved to IETF.

* Motion #19	To forward an IEEE P802.16.3 withdrawal request to NesCom
Moved	Marks
Second	Godfrey
Results	Approved without objection
Motion	Approved.
Reference	Agenda Item #5.041

5.042	ME	PAR to NesCom - IEEE 802.16s - Smaller Channels	Marks	<b>3</b>	<b>03:41 PM</b>
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Marks presented the following slides –

IEEE 802.16-15-0054-00-Gcon

## P802.16s PAR to NesCom: Additional Remarks on Standards of Similar Scope

13 November 2015

Roger Marks, EthAirNet Associates  
Tim Godfrey, EPRI



## PAR and CSD

Draft PAR:

[IEEE 802.16-15-0051-00](#)

Draft CSD:

[IEEE 802.16-15-0052-00](#)

PAR Title:

IEEE Standard for Air Interface for Broadband Wireless  
Access Systems – Amendment for Fixed and Mobile  
Wireless Access in Channel Bandwidth up to 1.25 MHz  
[amendment to IEEE Std 802.16]

## Comments and Responses

Document:

[IEEE 802.16-15-0050-00](#)

Spreadsheet:

<http://comments16s.wirelessman.org>

## Draft PAR, Item 7.1

*7.1 Are there other standards or projects with a similar scope?: No*

### PAR Item 5.2b:

802.20 WG: There are other standards (other than IEEE802.16), which covers the above scope of PAR, while supporting the operation with the channel sizes up to 1.25 MHz in the licensed spectrum below 3.5GHz. The scope needs to be modified while not duplicating the existing TDD standards.

802.16 response: We are not aware of other standards with similar scope. See next comment for further detail.

## PAR Item 7.1:

802.20 WG: The PAR answer for item #7.1 is incorrect.

There other existing and Global TDD standards in Channel Sizes up to 1.25 MH:

- IEEE Std. 802.20-2008 (TDD Modes)
- ATIS –HC-SDMA- 2005
- ATIS –HC-SDMA- 2007
- ARIB STD-T97 Sep.2008 (JAPAN)
- ISO 25113:2010

The PAR must answer Yes to item #7.1 and list all the above listed TDD standards

802.16 response: IEEE Std 802.20 (and, to our knowledge, the other referenced standards) supports an optional TDD mode operating in 625 KHz channels, which is inapplicable to the bandwidths of interest in this project. The fixed 625 KHz channel size would not efficiently use the 1 MHz spectrum that is an objective of this amendment, and precludes many required frequency reuse methods. The wideband TDD mode of the 802.20 standard only supports channel widths above 2.5 MHz. Consequently, we don't believe that the referenced standards are of similar scope.

## PAR Item 7.1:

802.11 WG: 3GPP develops NB-IOT (narrow band LTE for Internet of Things) which is similar in scope to this project scope – from 5.2b: “This system profile will specify operation in exclusively-licensed spectrum with channel sizes up to 1.25 MHz, including 1 MHz explicitly”. How is this project different from the 3GPP case?

802.16 response: NB-IOT is not of similar scope. This project is to amend the 802.16 standard. 3GPP standards are not compatible with the 802.16 standard.

802.11 Rebuttal: NB-IOT is of similar scope and has similar use cases in the same band. Therefore, it should be identified in 7.1. However, we recognize that the identified stakeholders appear to have a need for an 802.16 based solution, and the competing solution may not meet their needs. We suggest you include this information in 7.1 because it explains why this amendment to 802.16 may be justified.

## Comparison to NB-IOT (per 3GPP Work Item Description RP-151621)

*The objective is to specify a radio access for cellular internet of things, based to a great extent on a non-backward-compatible variant of E-UTRA, that addresses improved indoor coverage, support for massive number of low throughput devices, low delay sensitivity, ultra low device cost, low device power consumption and (optimised) network architecture.*

## Comparison to NB-IOT (per 3GPP Work Item Description RP-151621)

*NB-IOT should support 3 different modes of operation:*

- 1. 'Stand-alone operation' utilizing for example the spectrum currently being used by GERAN systems as a replacement of one or more GSM carriers*
- 2. 'Guard band operation' utilizing the unused resource blocks within a LTE carrier's guard-band*
- 3. 'In-band operation' utilizing resource blocks within a normal LTE carrier*

## Comparison to NB-IOT (per 3GPP Work Item Description RP-151621)

*180 kHz UE RF bandwidth for both downlink and uplink*

*For the uplink, two options will be considered: FDMA with GMSK modulation (as described in 3GPP TR 45.820 section 7.3), and SC-FDMA (including single-tone transmission as a special case of SC-FDMA)*

*Two numerology options will be considered for inclusion: 15 kHz sub-carrier spacing (with normal or extended CP) and 3.75 kHz sub-carrier spacing.*

## Comparison to NB-IOT (per 3GPP Work Item Description RP-151621)

*For the standalone mode of operation: on scenarios and criteria documented in 3GPP TR 45.820 Sections 4 & 5, and Annex A (with the exception of impacts to GSM base station baseband)*

- *For in-band & guard-band mode of operation: on scenarios and criteria documented in 3GPP TR 45.820 Sections 4 & 5, and Annex A (with exception of impacts to GSM base station baseband and RF), plus newly defined scenarios and criteria based upon the same TR e.g. interference to/from legacy LTE operation*
- *For power consumption, latency, and capacity, this evaluation will assume use of Gb interface towards the core network*

*MAC, RLC, PDCP and RRC procedures based on existing  
LTE procedures and protocols and relevant  
optimisations to support the selected physical layer*

## Conclusion

*In our view, the draft PAR answers item 7.1 correctly.*

*7.1 Are there other standards or projects with a similar  
scope?: No*

Marks presented [16-15-0050-00-Gdoc-p802-16s-draft-par-comments-and-responses.pdf](#). (See attached file).

Discussion – There was significant discussion regarding whether the scope of the proposed project was the same or similar to other projects. There was also disagreement regarding the joint sponsorship.

* Motion #20	To forward, to NesCom, PAR P802.16s (IEEE 802.16-15-0051-00 and accept the accompanying CSD (IEEE 802.16-15—0052-00)
Moved	Marks
Second	Godfrey
Results	3-7-5
Motion	Fails
Reference	Agenda Item #5.042

5.05	-	IEEE 802.18	Lynch	-	03:44 PM
5.06	-	IEEE 802.19	Shellhammer	-	03:44 PM
5.07	-	IEEE 802.21	Das	-	03:44 PM
5.08	-	IEEE 802.22	Mody	-	03:44 PM
5.09		IEEE 802.1			03:44 PM
5.091	ME	PAR to NesCom - IEEE – 802d Overview and Architecture : Uniform Resource Names (URN) Namespace	Parsons	3	03:44 PM

Parsons showed the following slides –

## 5.091 - 802d PAR – supporting info

- Overview and Architecture - Amendment:  
Uniform Resource Names (URN) Namespace
- PAR pre-circulated to EC
- [Comments](#) from 802.3, 802.11, 802.16 & James Gilb were received and [answered](#)
- Updated PAR & CSD were posted

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## 5.091 - MOTION

- EC approves the CSD for 802d (URN Namespace)and forwards the 802d PAR to NesCom.

- CSD: <http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespace-CSD-1115.pdf>

- PAR: <http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespace-PAR-1115-v01.pdf>

- WG proposed: Farkas      Second: Jeffree

- For\_\_24\_\_Against\_0\_\_Abstain\_0\_\_

- EC proposed: Parsons      Second: Thaler

- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_\_

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<p>* Motion #21</p> <p>Moved</p> <p>Second</p> <p>Results</p> <p>Motion</p> <p>Reference</p>	<p>EC approves the CSD for 802d (URN Namespace)and forwards the 802d PAR to NesCom.</p> <ul style="list-style-type: none"> <li>• CSD: <a href="http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespace-CSD-1115.pdf">http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespace-CSD-1115.pdf</a></li> <li>• PAR: <a href="http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespace-PAR-1115-v01.pdf">http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespace-PAR-1115-v01.pdf</a></li> </ul> <p>Parsons</p> <p>Thaler</p> <p>Approved without objections</p> <p>passes</p> <p>Agenda Item #5.091</p>
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5.092	ME	PAR to NesCom - IEEE 802.1CQ- Multicast and Local Address Assignment	Parsons	3	03:47 PM
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Parsons presented the following slides -

## 5.092 -.1CQ PAR – supporting info

- Multicast and Local Address Assignment
- PAR pre-circulated to EC as per P&P
- [Comments](#) from 802.3, 802.11, 802.16 & James Gilb were received and [answered](#)
- Updated PAR & CSD were posted

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## 5.092 - Motion

- EC approves the CSD and forwards the P802.1CQ (Multicast and Local Address Assignment) PAR to NesCom.
  - CSD: <http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-1CQ-csd-local-address-prot-1115.pdf>
  - PAR: <http://ieee802.org/1/files/public/docs2015/dcb-thaler-clean-1CQ-par-local-address-prot-1115-v0.pdf>
- WG proposed: Thaler Second: Gray
- For \_\_26\_\_ Against \_\_0\_\_ Abstain \_\_0\_\_
- EC proposed: Parsons Second: Thaler
- For \_\_\_\_ Against \_\_\_\_ Abstain \_\_\_\_

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* Motion #22	EC approves the CSD and forwards the P802.1CQ (Multicast and Local Address Assignment) PAR to NesCom. <ul style="list-style-type: none"> <li>CSD: <a href="http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-1CQ-csd-local-address-prot-1115.pdf">http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-1CQ-csd-local-address-prot-1115.pdf</a></li> <li>PAR: <a href="http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-clean-1CQ-par-local-address-prot-1115-v0.pdf">http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-clean-1CQ-par-local-address-prot-1115-v0.pdf</a></li> </ul>
Moved	Parsons
Second	Thaler
Results	14-0-0
Motion	passes
Reference	Agenda Item #5.092

5.093	ME	PAR to NesCom - IEEE 802.BA/Cor1 - Audio Video Bridging (AVB) Systems - Corrigendum 1: Technical and Editorial Corrections	Parsons	3	03:50 PM
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Parsons presented the following slides -

## 5.093 - .1BA/Cor1 PAR – supporting info

- 802.1BA/Cor1 - Audio Video Bridging (AVB) Systems - Corrigendum 1: Technical and editorial corrections
- PAR pre-circulated to EC 48 hours in advance as per P&P
- No CSD required for a maintenance PAR

# 5.093 - Motion

- EC approves to forward the P802.1BA/Cor1 PAR to NesCom.
  - PAR: <http://ieee802.org/1/files/public/docs2015/new-P802-1BA-2011-Cor-1-draft-PAR-1115.pdf>
- WG proposed: Messenger Second: Gray
- For \_\_26\_\_ Against \_\_0\_\_ Abstain \_\_0\_\_
  
- EC proposed: Parsons                      Second: Thaler
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

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* Motion #23	EC approves to forward the P802.1BA/Cor1 PAR to NesCom. PAR: <a href="http://ieee802.org/1/files/public/docs2015/new-P802-1BA-2011-Cor-1-draft-PAR-1115.pdf">http://ieee802.org/1/files/public/docs2015/new-P802-1BA-2011-Cor-1-draft-PAR-1115.pdf</a>
Moved	Parsons
Second	Thaler
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.093

Time:

5.094	ME	To Sponsor Ballot - IEEE 802.1AX/Cor1 – Link Aggregation - Corrigendum 1: Technical and Editorial Corrections	Parsons	3	03:53 PM
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Parsons showed the slides –

## 5.094 - P802.1AX/Cor1 ballot stats

- No remaining Disapprove voters or outstanding comments. The one disapprove voter has indicated that he is satisfied with the resolution of his comment.
- WG recirculation ballot will be conducted following this meeting with comment resolution at the January interim if necessary. If necessary, a second recirculation will be conducted following the January meeting.
- BALLOT OPEN DATE: 9-Sep-2015
- BALLOT CLOSE DATE: 30-Oct-2015
- TYPE: Corrigendum DRAFT #: D0.2
- BALLOTS RECEIVED: 29
- VOTE CHANGES: 0
- COMMENTS: 3
- MUST BE SATISFIED COMMENTS: 0
- RESPONSE RATE
- This ballot has met the 50% returned ballot requirement.
  - 50 eligible people in this ballot group.
  - 15 affirmative votes
  - 1 total negative votes with comments
  - 1 negative votes with new comments
  - 0 negative votes without comments
  - 12 abstention votes: (Lack of expertise: 9, Lack of time: 3)
  - 29 votes received = 58% returned
  - 42% abstention
- APPROVAL RATE
  - The 50% affirmation requirement is being met.
  - 15 affirmative votes
  - 1 negative votes with comments
  - 15 votes = 93.% affirmative

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## 5.094 - MOTION

- EC approves to forward P802.1AX-2014/Cor-1 D0.2 (Link Aggregation - Corrigendum 1: Technical and Editorial Corrections) to Sponsor Ballot.
  
- Proposed: Farkas Second: Messenger
- For\_25\_\_\_Against\_0\_\_\_Abstain\_0\_\_\_
  
- EC proposed: Parsons Second:
- For\_\_\_Against\_\_\_Abstain\_\_\_

Note there is no CSD as this is a corrigendum

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* Motion #24	EC approves to forward P802.1AX-2014/Cor-1 D0.2 (Link Aggregation - Corrigendum 1: Technical and Editorial Corrections) to Sponsor Ballot.
Moved	Parsons
Second	Law
Results	Approved without objections
Motion	passes
Reference	Agenda Item #5.094

Time:

5.095	ME	To RevCom - IEEE 802.1Qbv - Bridges and Bridged Networks – Enhancements for Scheduled traffic	Parsons	3	03:56 PM
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Parsons showed the following slides-

## 5.095 - P802.1Qbv - Last ballot statistics

100% approval, so no remaining Disapprove voters or outstanding comments.

BALLOT OPEN DATE: 25-Sep-2015

BALLOT CLOSE DATE: 05-Oct-2015

TYPE: New

DRAFT #: D3.1

BALLOTS RECEIVED: 3

VOTE CHANGES: 2

COMMENTS: 1

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

90 eligible people in this ballot group.

71 affirmative votes

0 total negative votes with comments

0 negative votes with new comments

0 negative votes without comments

4 abstention votes: (Lack of expertise: 1, Lack of time: 3)

75 votes received = 83% returned

5% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.

71 affirmative votes

0 negative votes with comments

71 votes = 100% affirmative

- The comments are:

<http://www.ieee802.org/1/files/private/bv-drafts/d3/802-1Qbv-D3-1-dis.pdf>

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## 5.095 - MOTION

- EC confirms the CSD
  - <http://grouper.ieee.org/groups/802/PARs/2012-03/Qbv-pannell-draft-5C-0112-v02.pptx>
- and requests unconditional approval of the EC to forward P802.1Qbv to RevCom.
- Proposed: Farkas    Second: Jeffree
- For\_\_21\_\_Against\_0\_\_Abstain\_\_0\_\_
  
- EC proposed: Parsons    Second: Thaler
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

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\* Motion #25

Moved  
Second  
Results  
Motion  
Reference

- EC confirms the CSD <http://grouper.ieee.org/groups/802/PARs/2012-03/Qbv-pannell-draft-5C-0112-v02.pptx>
  - and approves forwarding P802.1Qbv to RevCom.
- Parsons  
Thaler  
Approved with no objections  
passes  
Agenda Item #5.095



5.096	ME	To RevCom – IEEE 802.1Q/Cor1 - Bridges and Bridged Networks - Corrigendum 1: Technical and Editorial Corrections	Parsons	3	03:59 PM
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Parsons presented the following slides –

## 5.096 - P802.1Q-Cor1 - Last ballot statistics

No outstanding Disapproves or comments.

BALLOT OPEN DATE: 09-Sep-2015

BALLOT CLOSE DATE: 19-Sep-2015

TYPE: New

DRAFT #: D1.1

BALLOTS RECEIVED: 1

COMMENTS: 1

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

77 eligible people in this ballot group.

66 affirmative votes

0 total negative votes with comments

0 negative votes with new comments

0 negative votes without comments

2 abstention votes: (Lack of expertise: 2)

68 votes received = 88% returned

2% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.

66 affirmative votes

0 negative votes with comments

66 votes = 100% affirmative

- The comments are:  
<http://www.ieee802.org/1/files/private/q-2014-cor-1-drafts/d1/802-1q-2014-cor-1-d1-1-dis.pdf>

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## 5.096 - MOTION

- EC unconditionally approves to forward P802.1Q:2014/ Cor-1 (Bridges and Bridged Networks – Technical and Editorial Corrections) to RevCom.
  
- Proposed: Messenger Second: Jeffree
- For\_\_25\_\_Against\_0\_\_Abstain\_\_0\_\_
  
- EC proposed: Parsons Second: Thaler
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

Note: There are no CSD for this maintenance project.

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* Motion #26	EC unconditionally approves to forward P802.1Q:2014/ Cor-1 (Bridges and Bridged Networks – Technical and Editorial Corrections) to RevCom.
Moved	Parsons
Second	Thaler
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #5.096

5.097	ME	To RevCom – IEEE 802.1AB/rev - Station and MAC Connectivity Discovery	Parsons	3	04:02 PM
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Parsons presented the following slides –

## 5.097-P802.1AB-REV supporting info:

- 2 remaining Disapprove voters; one from initial ballot (Douglas Dorr), one that “piled on” during the first recirc (Ben Rolfe). Comments and resolutions are on the following pages.
- Second recirc will be conducted in November 2015 timeframe; possible (but unlikely) third recirc if necessary for final cleanup.
- BALLOT OPEN DATE: 21-Sep-2015
- BALLOT CLOSE DATE: 01-Oct-2015
- TYPE: Revision
- DRAFT #: D1.1
- BALLOTS RECEIVED: 5
- VOTE CHANGES: 3
- COMMENTS: 9
- MUST BE SATISFIED COMMENTS: 8
- RESPONSE RATE
  - This ballot has met the 75% returned ballot requirement.
  - 83 eligible people in this ballot group.
  - 66 affirmative votes
  - 2 total negative votes with comments
  - 1 negative votes with new comments
  - 0 negative votes without comments
  - 2 abstention votes: (Lack of expertise: 1, Lack of time: 1)
  - 70 votes received = 84% returned
  - 2% abstention
- APPROVAL RATE
  - The 75% affirmation requirement is being met.
  - 66 affirmative votes
  - 2 negative votes with comments
  - 68 votes = 97% affirmative

CI 02 SC 2 P3 L3 # i-11  
Dorr, Douglas Electric Power Resear

Comment Type TR Comment Status R

26 unique references cannot be "indispensible" - This suggests to the reader "must" obtain every one of these documents is not practical.

*SuggestedRemedy*

List just the 802 series documents as indispensable and list the remainder of the docs as useful references.

Response Response Status W

REJECT. This is a list of those references that are indispensable. Each one of those references is required in order to meet a "shall" or a "may" in the normative text.

CI 02 SC 2 P3 L4 # i-12  
Dorr, Douglas Electric Power Resear

Comment Type ER Comment Status R

The text states "so each referenced document is cited in the text and its relationship to this document is explained)."

These relationships are not explained - for example the only place RFC 1812 appears in the doc is in Table 8-4

*SuggestedRemedy*

Remove the statement (so each referenced document is cited in the text and its relationship to this document is explained).

Response Response Status W

REJECT. This is standard boilerplate text for the references clause, as per the IEEE style guide. In the example given, the presence of the reference in the table explains where the reader should go in order to understand that table element.

CI 04 SC 4 P6 L30 # i-13  
Dorr, Douglas Electric Power Resear

Comment Type ER Comment Status A

LLDPDU is listed as LLDP data unit - ie an acronym to describe part of the acronym. The reader should not have to refer to other points in document to understand the full acronym.

*SuggestedRemedy*

Spell out full acronym for all occurrences where an acronym is used in the section.

Response Response Status W

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general  
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn  
SORT ORDER: Comment ID

Comment ID i-13

Page 1 of 1  
10/11/2015 22:39:40

Cl 01 SC 1.1 P2 L9 # r01-1  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type ER Comment Status R  
 The scope of the standard does not match the scope of the PAR (if only by a little).  
 SuggestedRemedy  
 revise last list item to match the PAR  
 Response Response Status C  
 REJECT. Current SA rules do not require that the scope in the draft is identical in wording to the scope in the PAR. The requirement is that the content of the document does not exceed the scope stated in the PAR.

Cl 02 SC 2 P3 L1 # r01-8  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type TR Comment Status A  
 Reason for reject of comment i-11 is not correct. The statement "Each one of those references is required in order to meet a "shall" or a "may" in the normative text." is false; several of the references listed are not referenced in normative text (text with a "shall" or "may"). associated 'shall'  
 SuggestedRemedy  
 Move such references to the bibliography  
 Response Response Status C  
 ACCEPT IN PRINCIPLE. Some of the references cited by the commenter will be moved to the bibliography.

Cl 02 SC 2 P3 L1 # r01-7  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type GR Comment Status A  
 The reason for rejecting i-12 is only half correct. The text in question is standard boilerplate. The comment is correct in stating that the reference is not properly cited; the use in table 8-4 does not meet the definition of a normative reference in the boilerplate text. No content of the referenced RFC is used in this document. Counter example is RFC 3232 which is properly cited with context, i.e. one must open up the RFC to learn what ianaAddressFamilyNumbers in order to understand the management address subtype (8.5.9.3)  
 SuggestedRemedy  
 Take all the informative references out of clause 2 and move to the bibliography.  
 Response Response Status C  
 ACCEPT IN PRINCIPLE. Some of the references cited by the commenter will be moved to the bibliography.

Cl 02 SC 2 P3 L10 # r01-4  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type GR Comment Status A  
 RFC 4293 is not used as a normative reference; it is an informative reference used only in table 8-4.  
 SuggestedRemedy  
 Move to bibliography  
 Response Response Status C  
 ACCEPT.

Cl 02 SC 2 P3 L13 # r01-6  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type GR Comment Status R  
 RFC 4639 is not a normative reference.  
 A normative reference "must be understood and used, so each referenced document is cited in the text and its relationship to this document is explained". Neither is true for this reference, thus it is informative (i.e. the user of this standard does not need to understand the content of the reference to understand what the encoding of the capabilities field means, especially when encoding the value "0")  
 SuggestedRemedy  
 move to bibliography  
 Response Response Status C  
 REJECT. RFC 4639 is needed in order for a user of the standard to understand when that capability should be encoded. The relationship to this document is explained - see first paragraph of 8.5.8.1. In the case of RFC 4639, this document is made specific reference to in the MIB (p76 i47).

Cl 02 SC 2 P3 L14 # r01-5  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type GR Comment Status A  
 RFC 4546 is not a normative reference (used only in table 8-4).  
 SuggestedRemedy  
 move to bibliography  
 Response Response Status C  
 ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general  
 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn  
 SORT ORDER: Clause, Subclause, page, line

Cl 02  
 SC 2

Page 1 of 2  
 10/11/2015 22:07:29

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CI 02	SC 2	P3	L 30	# r01-2
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Rolfe, Benjamin                      Blind Creek Associate

*Comment Type*    **TR**            *Comment Status*   **A**

This is not a normative reference. It is not cited with the relationship to this document explained. As used in the text, reader would not need not understand nor use the contents of the referenced document.

*SuggestedRemedy*

Move to the bibliography and update 1 reference accordingly.

*Response*                      *Response Status*    **C**

ACCEPT.

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CI 02	SC 2	P3	L 32	# r01-3
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Rolfe, Benjamin                      Blind Creek Associate

*Comment Type*    **GR**            *Comment Status*   **A**

IETF RFC 2108 is not a normative reference. It should go in the bibliography. It is only used in the capabilities bitmap to identify a capability, no content of the reference is used or referenced in this standard.

*SuggestedRemedy*

move to bibliography

*Response*                      *Response Status*    **C**

ACCEPT.

## 5.097 - MOTION

- EC conditionally approves to forward P802.1AB-REV (Station and MAC Connectivity Discovery) to RevCom.
- Proposed: Messenger Second: Jeffree
- For: 25    Against: 0    Abstain: 0
  
- EC proposed: Parsons Second: Thaler

Note: There are no CSD for this maintenance project.

* Motion #27	EC conditionally approves to forward P802.1AB-REV (Station and MAC Connectivity Discovery) to RevCom
Moved	Parsons
Second	Thaler
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #5.097

Time:4:51

<b>6.00</b>		<b>Executive Committee Study Groups, Working Groups, TAGs</b>			<b>04:05 PM</b>
<b>6.01</b>		<b>IEEE 802.3</b>			<b>04:05 PM</b>
6.011	MI	Study Group Formation - IEEE 802.3 Single lane 50 Gb/s Ethernet Study Group	Law	<b>3</b>	<b>04:05 PM</b>

Law presented the following slides –



## MI 6.011: IEEE 802.3 50 Gb/s Ethernet over a single lane Study Group



## IEEE 802.3 50 Gb/s Ethernet over a single lane Study Group

### Motion

The IEEE 802 LMSC Executive Committee grants approval for the formation of the IEEE 802.3 50 Gb/s Ethernet over a single lane Study Group within IEEE 802.3

M: Law, S: D'Ambrosia  
Y: ??, N: ?, A: ?

Working Group vote:  
Y: 74, N: 0, A: 2

Chair noted that he had asked Mr. Law to group the approval of Study Groups together in one motion. There were no objections.

6.012	MI	Study Group Formation - IEEE 802.3 Next generation 100 Gb/s and 200 Gb/s Ethernet Study Group	Law	3	04:08 PM
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Law presented the following slides –

## MI 6.012: IEEE 802.3 Next generation 100 Gb/s and 200 Gb/s Ethernet Study Group

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### IEEE 802.3 Next generation 100 Gb/s and 200 Gb/s Ethernet Study Group

#### Motion

The IEEE 802 LMSC Executive Committee grants approval for the formation of the IEEE 802.3 Next generation 100 Gb/s and 200 Gb/s Study Group within IEEE 802.3

M: Law, S: D'Ambrosia

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

Working Group vote:

Y: 74, N: 0, A: 2

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Law presented the following slides –

## MI 6.013: IEEE 802.3 25Gb/s Ethernet PMD(s) for single mode fiber Study Group

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### IEEE 802.3 25Gb/s Ethernet PMD(s) for single mode fiber Study Group

#### Motion

The IEEE 802 LMSC Executive Committee grants approval for the formation of the IEEE 802.3 25Gb/s Ethernet PMD(s) for single mode fiber Study Group within IEEE 802.3

M: Law, S: D'Ambrosia  
Y: ??, N: ?, A: ?

Working Group vote:  
Y: 68, N: 0, A: 4

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## IEEE 802.3 Study Groups and ICAID motion

### Motion

The IEEE 802 LMSC Executive Committee grants approval for the formation of the following Study Groups within IEEE 802.3

- [1] IEEE 802.3 50 Gb/s Ethernet over a single lane Study Group
- [2] IEEE 802.3 Next generation 100 Gb/s and 200 Gb/s Study Group
- [3] IEEE 802.3 25Gb/s Ethernet PMD(s) for single mode fiber Study Group

M: Law, S: D'Ambrosia  
Y: ??, N: ?, A: ?

- [1] Working Group vote: Y: 74, N: 0, A: 2
- [2] Working Group vote: Y: 74, N: 0, A: 2
- [3] Working Group vote: Y: 68, N: 0, A: 4

* Motion #28	The IEEE 802 LMSC Executive Committee grants approval for the formation of the following Study Groups within IEEE 802.3 [1] IEEE 802.3 50 Gb/s Ethernet over a single lane Study Group [2] IEEE 802.3 Next generation 100 Gb/s and 200 Gb/s Study Group [3] IEEE 802.3 25Gb/s Ethernet PMD(s) for single mode fiber Study Group
Moved	Law
Second	D'Ambrosia
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #6.011, 6.012, 6.013

6.014	MI*	SG 1st Extension - IEEE 802.3 Next Generation Ethernet Passive Optical Network (NG-EPON) Study Group	Law	0	04:14 PM
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Approved with approval of agenda

## \*MI 6.014: IEEE 802.3 Next Generation Ethernet Passive Optical Network (NG-EPON) Study Group (1st extension)

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### IEEE 802.3 Next Generation Ethernet Passive Optical Network (NG-EPON) Study Group (1st extension)

#### Motion

The IEEE 802 LMSC Executive Committee approves an extension to the IEEE 802.3 Next Generation Ethernet Passive Optical Network (NG-EPON) Study Group (1st extension)

M: Law S: D'Ambrosia

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

Working Group vote

Y: 101, N: 0, A: 2

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6.015	MI*	SG 1st Extension -IEEE 802.3 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper Study Group	Law	0	04:14 PM
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Approved with approval of agenda.

## \*MI 6.015: IEEE 802.3 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper Study Group (1st extension)

### IEEE 802.3 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper Study Group (1st extension)

#### Motion

The IEEE 802 LMSC Executive Committee approves an extension to the IEEE 802.3 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper Study Group (1st extension)

M: Law S: D'Ambrosia

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

Working Group vote

Y: 55, N: 0, A: 1

6.016	MI	Industry Connections Activity Initiation Document (ICAID Approval - Next Generation Enterprise/Campus/Data Center Ethernet	Law	3	04:14 PM
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Law presented the following slides –

## ME 6.016: IEEE 802.3 Next Generation Enterprise/Campus/Data Center Ethernet Industry Connections Activity Initiation Document (ICAID)

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### IEEE 802.3 Next Generation Enterprise/Campus/Data Center ICAID

#### Motion

The IEEE 802 Executive Committee endorses the IEEE 802.3 Next Generation Enterprise/Campus/Data Center ICAID found in [http://ieee802.org/3/ad\\_hoc/ngrates/ICAID\\_a\\_15\\_1110.pdf](http://ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf)

M: Law, S: D'Ambrosia  
Y: ??, N: ?, A: ?

Working Group vote:  
Y: 70, N: 0, A: 0

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D'Ambrosia indicated that there were 101 initial participants noted on the ICAID.

* Motion #29	The IEEE 802 Executive Committee endorses the IEEE 802.3 Next Generation Enterprise/Campus/Data Center ICAID found in <a href="http://ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf">http://ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf</a>
Moved	Law
Second	D'Ambrosia
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #5.011

6.02	-	IEEE 802.11	Stephens	0	04:17 PM
6.03		IEEE 802.15	Heile		04:17 PM
6.031	MI*	SG 1st Extension - IEEE 802.15.12 CLLC Study Group	Heile	0	04:17 PM

Approved with approval of agenda.

Time: 4:58pm

6.04	-	IEEE 802.16	Marks	-	04:17 PM
6.05	-	IEEE 802.18	Lynch	-	04:17 PM
6.06	-	IEEE 802.19	Shellhammer	-	04:17 PM
6.07	-	IEEE 802.21	Das	-	04:17 PM
6.08	-	IEEE 802.22	Mody	-	04:17 PM
6.09	-	IEEE 802.24	Godfrey	-	04:17 PM
6.10	-	IEEE 802.1	Parsons	-	04:17 PM
					04:17 PM
7.00		LMSC Liaisons and External Interface			04:17 PM
7.01		IEEE 802.3			04:17 PM
7.011	-	Liaison letter to ITU-T SG15: Access Network Transport (ANT) Standardization Work Plan	Law	0	04:17 PM
7.012	-	Liaison letter to ITU-T SG15: Optical Transport Networks and Technologies (OTNT) Standardization Work Plan (Information item)	Law	0	04:17 PM
7.013	-	Liaison letter to ITU-T SG15: Home Network Transport (HNT) standardization work plan (Information item)	Law	0	04:17 PM
7.014	II	Liaison of IEEE Std 802.3bw-2015 to ISO/IEC JTC1 SC6	Law	3	04:17 PM

An error was noted with the agenda. 7.014 should be ME, not II. No objections to correcting the agenda. Chair directed secretary to revise the agenda.



## ME 7.014: Liaison of IEEE Std 802.3bw-2015 to ISO/IEC JTC1 SC6

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### Liaison of IEEE Std 802.3bw-2015 to ISO/IEC JTC1 SC6

#### Motion

The IEEE 802 LMSC Executive Committee approves the draft liaison letter to ISO/IEC JTC1 SC6 to liaise IEEE Std 802.3bw-2015 100BASE-T1.

The draft liaison letter, approved by the IEEE 802.3 Working Group with editorial license granted to the IEEE 802.3 Working Group Chair, can be found at

<[http://www.ieee802.org/3/minutes/nov15/outgoing/IEEE\\_802d3\\_to\\_ISOIEC\\_JTC1\\_SC6\\_1115\\_draft.pdf](http://www.ieee802.org/3/minutes/nov15/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_1115_draft.pdf)>.

M: Law, S: D'Ambrosia

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

Working Group vote:

Y: 108, N: 0, A: 3

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It was noted that ISO/IEC is not a government body.

* Motion #30	The IEEE 802 LMSC Executive Committee approves the draft liaison letter to ISO/IEC JTC1 SC6 to liaise IEEE Std 802.3bw-2015 100BASE-T1. The draft liaison letter, approved by the IEEE 802.3 Working Group with editorial license granted to the IEEE 802.3 Working Group Chair, can be found at <a href="http://www.ieee802.org/3/minutes/nov15/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_1115_draft.pdf">http://www.ieee802.org/3/minutes/nov15/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_1115_draft.pdf</a> .
Moved	Law
Second	D'Ambrosia
Results	15-0-0
Motion	passes
Reference	Agenda Item #7.014

<b>7.02</b>		<b>IEEE 802.11</b>			<b>04:20 PM</b>
7.021	ME	Liaison to 3GPP related to IEEE 802.11 radio measurement and RSSI	Stephens	<b>0</b>	<b>04:20 PM</b>
<b>7.03</b>		<b>IEEE 802.15</b>			<b>04:20 PM</b>
7.031	ME	IEEE 802.15.3 REVa to ISO/IEC JTC1 SC6	Heile	<b>3</b>	<b>04:20 PM</b>

Heile presented the following slide

November 2015

doc.: IEEE 802.15-15-0955-00-0000

## 15.3RevA to PSDO-EC motion

- 802.15 requests EC approval to forward P802.15.3-RevA to ISO/IEC JTC1 SC6, for information under the PSDO agreement, once Sponsor balloting begins.

(WG vote: 43-0-2)

Moved: Heile

Second: Gilb

Submission

Slide 39

Bob Heile, Wi-SUN Alliance

* Motion #31	802.15 requests EC approval to forward P802.15.3-RevA to ISO/IEC JTC1 SC6, for information under the PSDO agreement, once Sponsor balloting begins.
Moved	Heile
Second	Gilb
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #7.031

Time: 5:04pm

7.04	-	IEEE 802.16	Marks	-	04:23 PM
7.05		IEEE 802.18			04:23 PM
7.051	ME	Approval of Comments on Report ITU-R SM.2351-0 ( <a href="https://mentor.ieee.org/802.18/dcn/15/18-15-0064-01-0000-comments-on-report-itu-r-sm-2351-0-smart-grid-management-systems.docx">https://mentor.ieee.org/802.18/dcn/15/18-15-0064-01-0000-comments-on-report-itu-r-sm-2351-0-smart-grid-management-systems.docx</a> )	Lynch	0	04:23 PM

Lynch showed the following slide:

November, 2015

doc.: 18-15/0068

## EC Motion to approve 18-15/0068 & 18-15/0064r1

- The RR-TAG approved and is submitting to the EC for approval one document from IEEE 802.24 for ITU-R WP1A and one from IEEE 802.18 (the cover letter):
  - To approve documents 18-15/0068 (the cover letter) and 18-14/0064r1, a response to an ITU-R Working Party 1A request to review and provide comments on REPORT ITU-R SM.2351-0, "Smart grid utility management systems" and forward to WP1A.
  - TAG vote: 6/0/0
  - Moved: Lynch Second: Godfrey
  - Vote: 15 Yes 0 No 0 Abstain (By consensus)

Submission

Slide 1

Michael Lynch, M/Lynch & Associates LLC

* Motion #32	To approve documents 18-15/0068 (the cover letter) and 18-14/0064r1, a response to an ITU-R Working Party 1A request to review and provide comments on REPORT ITU-R SM.2351-0, "Smart grid utility management systems" and forward to WP1A.
Moved	Lynch
Second	Godfrey
Results	Approved without objection
Motion	Passes
Reference	7.051

Time: 5:08pm

7.06	-	IEEE 802.19	Shellhammer	-	04:23 PM
7.07	-	IEEE 802	Nikolich	-	04:23 PM
7.08	-	IEEE 802.21	Das	-	04:23 PM
7.09		IEEE 802.22	Mody		04:23 PM
7.091	ME	Motion to Forward IEEE Std. 802.22a-2014 and IEEE Std. 802.22b-2015 to the ISO/IEC/JTC1 to start the 60 Day FDIS Ballot Process under the PSDO Agreement.	Mody	3	04:23 PM

Mody showed the following slides

## 802.22 November Plenary EC Closing Motions Package

Date: 2015-11-13

Authors:

Name	Affiliations	Address	Phone	email
Apurva N. Mody	BAE Systems		1-404-819-0314	<a href="mailto:Apurva_mody@bae.com">Apurva_mody@bae.com</a>
Chang-woo Pyo	NICT			<a href="mailto:cwpyo@nict.go.jp">cwpyo@nict.go.jp</a>

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Submission

Slide 1

Apurva N. Mody, BAE Systems

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November 2015

doc.: IEEE 22-15/0035r0

### Motion to Forward IEEE Std. 802.22a-2014 and IEEE Std. 802.22b-2015 to the ISO/IEC/JTC1 to start the 60 Day FDIS Ballot Process under the PSDO Agreement.

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Submission

Slide 2

Apurva N. Mody, BAE Systems

### **IEEE 802.22 Working Group Motion**

**The IEEE 802.22 WG moves to forward IEEE Std. 802.22a-2014 and IEEE Std. 802.22b-2015 to ISO/IEC/JTC1/SC6 for the FDIS ballot process under the PSDO agreement with the IEEE.**

**Move: Chang-woo Pyo**

**Second: Jerry Kalke**

**For: 5**

**Against: 0**

**Abstain: 0**

**Motion Passes.**

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Submission

Slide 3

### **EC Motion to Approve Response to FDIS 60 days ballot Comments on the IEEE Std. 802.22-2011**

**EC Approves forwarding of the IEEE Std. 802.22a-2014 and IEEE Std. 802.22b-2015 to ISO/IEC/JTC1/SC6 to start the FDIS ballot process under the PSDO agreement with the IEEE.**

**Move: Apurva N. Mody**

**Second: Bob Heile**

**Any discussions on the motion.**

**Any objections**

**Motion Passes**

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Submission

Slide 4

## References

- 802.22 November 2015 Plenary Working Group Motions –  
<https://mentor.ieee.org/802.22/dcn/15/22-15-0030-00-000b-2015-november-plenary-working-group-meeting-motions-for-ieee-802-22.docx>

* Motion #33	Motion to Forward IEEE Std. 802.22a-2014 and IEEE Std. 802.22b-2015 to the ISO/IEC/JTC1 to start the 60 Day FDIS Ballot Process under the PSDO Agreement.
Moved	Mody
Second	Heile
Results	Approved without objection
Motion	passes
Reference	Agenda Item #7.091

7.10		IEEE 802.24			04:26 PM
7.101	ME	Liaison response to the Industrial Internet Consortium in document 24-15-0038-00-0000-liaison-response-to-iic.docx	Godfrey	3	04:26 PM

It was noted that this item should be "II" not "ME". Godfrey showed the following slide-

November 2015

doc.: IEEE 802.24-15-0041r0

## 7.101 Liaison Response to IIC

- Formation of Liaison with Industrial Internet Consortium (IIC)
- Motion to approve the liaison response in document 24-15-0038-00-0000-liaison-response-to-iic.docx.
- 802.24 vote:
  - Moved Chris DiMinico, Second James Gilb
  - Approved 11 : 0 : 0

Submission

Slide 2

Tim Godfrey, EPRI

7.102	ME	Motion to approve the 802.24 request for the establishment of a liaison with IEEE P2030.5	Godfrey	3	04:29 PM
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It was noted that this item should be “II” not “ME”. Godfrey showed the following slides

November 2015

doc.: IEEE 802.24-15-0041r0

## 7.102 Liaison with P2030.5

- 802.24 desires to establish a liaison with IEEE P2030.5 (Smart Energy Profile) working group.
- Motion
  - 802.24 requests the establishment of a liaison with IEEE P2030.5 for the purpose of sharing information and recommendations regarding the revision of the P2030.5 standard and other matters as appropriate.
- 802.24 vote
  - Moved Ben Rolfe, Second Bob Heile
  - Approved 8 : 0 : 0

Submission

Slide 3

Tim Godfrey, EPRI

7.103	ME*	Motion to approve the IEEE 802 Student Paper announcement flyer posted (24-15-0033-01-0000-802-student-paper-competition-flyer.pdf) and officially announce contest.	Godfrey	0	04:32 PM
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Approved with approval of agenda

7.11		IEEE 802.1			04:32 PM
7.111	ME	To SC6 under PSDO - IEEE Std 802.1AB-REV to SC6 for information	Parsons	3	04:32 PM
7.112	ME	To SC6 under PSDO - IEEE – 60-day ballot responses for IEEE Std 802.1BA-2011 & IEEE Std 802.1BR-2012	Parsons	3	04:35 PM
7.113	ME	To SC6 under PSDO - FDIS comment for IEEE Std 802-2014	Parsons	3	04:38 PM
7.114	ME	To SC6 under PSDO - -- IEEE Std 802.1Qbv to SC6 for adoption	Parsons	3	04:41 PM

Parsons showed the following slides-



## 7.111 - JTC1 - P802.1AB-Rev

- EC approves to forward P802.1AB-Rev (Station and MAC Connectivity Discovery) to ISO/IEC JTC1 SC6, for **information** under the PSDO agreement.
- Proposed: Messenger Second: Gray
- For\_23\_\_\_Against\_\_0\_Abstain\_\_0\_\_
- EC proposed: Parsons Second:
- For\_\_\_\_Against\_\_Abstain\_\_\_\_\_

## 7.112 - JTC1 –802.1BA & 802.1BR

- 802.1 requests EC approval to forward the comment responses in document <http://ieee802.org/1/files/public/docs2015/liaison-randall-SC6response1BAand1BR-1115-v3.pdf>
- to JTC1 SC6 under the PSDO agreement. These are responses to the comments received on recent 60-day ballots of IEEE 802.1BA-2011 and IEEE 802.1BR-2012.
- Proposed: Randall Second: Messenger
- For\_\_26\_\_\_Against\_\_0\_Abstain\_\_0\_\_
- EC proposed: Parsons Second:
- For\_\_\_\_Against\_\_Abstain\_\_\_\_\_

## 7.113 - JTC1 – Std 802

- EC approves to forward the comment responses in document  
<http://ieee802.org/1/files/public/docs2015/liaison-randall-SC6response802-1115.pdf>
- to JTC1 SC6 under the PSDO agreement. This is the response to the comment received on recent FDIS ballot of IEEE Std 802-2014.
  
- Proposed: Randall Second: Messenger
- For\_\_26\_\_Against\_\_0\_\_Abstain\_\_0\_\_
  
- EC proposed: Parsons Second:
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

## 7.114 - JTC1 – Std 802.1Qbv

- 802.1 requests EC approval to forward IEEE Std 802.1Qbv to JTC1 SC6 for **adoption** under the PSDO agreement, once approved by the Standards Board.
  
- Proposed: Randall Second: Messenger
- For\_\_27\_\_Against\_\_0\_\_Abstain\_\_0\_\_
  
- EC proposed: Parsons Second:
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

* Motion #34	EC approves forwarding to ISO/IEC JTC1 SC6 under the PSDO agreement: P802.1AB-Rev for information Comments responses on 60-day ballots of IEEE 802.1BA-2011 and IEEE 802.1BR-2012 FDIS comment responses on IEEE Std 802-2014. IEEE Std 802.1Qbv for adoption
Moved	Parsons
Second	Thaler
Results	Aproved without objections
Motion	passes
Reference	Agenda Items # 7.111, 7.112, 7.113, and 7.114

7.115	II*	Liaison - IEEE 802.1 to ITU-T SG15 on 802.1AX DRNI	Parsons	0	04:44 PM
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Approved with approval of agenda.

7.116	II*	Liaison - IEEE 802.1 to ITU-T SG15 on YANG	Parsons	0	04:44 PM
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Approved with approval of agenda.

7.117	II*	Liaison - IEEE 802.1 to MEF on YANG service models	Parsons	0	04:44 PM
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Approved with approval of agenda.

7.118	II*	Liaison - IEEE 802.1 to IEEE 1588 on domain independent pdelay	Parsons	0	04:44 PM
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Approved with approval of agenda.

7.119	II*	Liaison - IEEE 802.1 to IEEE 1588 on slave timing	Parsons	0	04:44 PM
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Approved with approval of agenda.

Time: 5:15pm

7.120	ME	Press Release - – IEEE 802.1AX	Parsons	3	04:44 PM
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Parsons presented the following slide

## 7.120 - MOTION

- EC approves an IEEE press release for 802.1AX (Link Aggregation)
  - <http://ieee802.org/1/files/public/docs2015/ax-2014-press-release-1115-v01.pdf>.
- Proposed: Farkas Second: Messenger
- For \_\_27\_\_ Against \_\_0\_\_ Abstain \_\_0\_\_
- EC proposed: Parsons Second: Thaler
- For \_\_\_\_ Against \_\_\_\_ Abstain \_\_\_\_

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* Motion #35	EC approves an IEEE press release for 802.1AX (Link Aggregation) <a href="http://ieee802.org/1/files/public/docs2015/ax-2014-press-release-1115-v01.pdf">http://ieee802.org/1/files/public/docs2015/ax-2014-press-release-1115-v01.pdf</a> .
Moved	Parsons
Second	Thaler
Results	Approved without objections
Motion	passes
Reference	Agenda Item #7.120

8.00	ME	Information Items			04:47 PM
8.01	II	IEEE 802 / SA Task Force Report	Nikolich	5	04:47 PM

Nikolich gave verbal update.

Time: 5:17pm

8.02	II	IEEE SA Staff Reports			04:52 PM
8.03		Standing Committee Reports			04:52 PM
8.031	-	802 / JTC1-SC Report	Myles	0	04:52 PM
8.032	II	802 / ITU SC Report	Parsons	5	04:52 PM

Parsons presented the following slide

## Summary

- 802 has no specific comments on new TSAG process documents
  - Supportive of ITU collaboration/cooperation with IEEE 802 in a reciprocal manner based on mutual respect.
- Should 802 contribute to SG20 via IEEE?
  - Default is via direct liaison from 802.

8.033	II	802 / IETF SC Report	Thaler	5	04:57 PM
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Thaler showed the following slide –

## IEEE 802-IETF SC closing

- Discussed areas for coordination
  - IEEE 802.11 multicast packet loss – concerns that higher packet loss for multicast in IEEE 802.11 is causing problems for IPv6 implementations
  - 802.15 development of a PAR for an 802.15.4 LLC (802.15.12)
- Will add to coordination list

8.034	-	802 Wireless Chairs SC Report	Heile	0	05:02 PM
8.035	II	Regulatory report	Lynch	5	05:02 PM

Lynch gave verbal update. Radio conference underway in Geneva. Study Group 5 resident leadership is no longer there, and has been turned over to government agencies.

8.04		Officers Reports			05:07 PM
8.041	-	1st Vice Chair Report	Thaler	0	05:07 PM
8.042	II	2nd Vice Chair Report	Gilb	5	05:07 PM

No rules changes intended for March.

8.043	II	Treasurer's Report	Chaplin	5	05:12 PM
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Clint showed Treasurer's Report. [See attached presentation, ec-15-0098-00-00EC-2015-11-13-treasurer-report. pdf](#)

8.044	II*	Executive secretary report	Rosdahl	0	05:17 PM
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Approved with approval of agenda.

doc:802 EC-15/091r3

### \*F8.045 Executive secretary report LMSC 802 – P&P list of major duties:

1. Oversee Venue selection –
  2. Present summaries of venue options.
  3. Oversee activities related to facilities and services
  4. Carry out Duties of Treasurer if Treasurer unavailable
- Chairs Guideline list of major duties:
    - 1) 802 Meetings: Efficiency Improvement
    - 2) 802 Plenary Sessions: Facilities and Services
    - 3) IEEE 802 Registration Database
    - 4) Assist IEEE 802 Treasurer



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8.045	II	Recording Secretary Report	D'Ambrosia	2	05:17 PM
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D'Ambrosia indicated to members of the EC that he would be sending out guidance regarding presentation formatting and motion requests to improve efficiency for future meetings.

8.046	II*	Appeals report -No items to report	D'Ambrosia	0	05:19 PM
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8.05	II	Network Services report	Alfvin	5	05:19 PM
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Alfvin gave verbal update of report. Peak date for week was 178Mb/s. [See attached file, ec-15-0097-00-00EC-network-report-nov-2015-plenary-dallas.pdf.](#)

8.06	II*	Announcement of 802 EC Interim Telecon (Tuesday 2 Feb 2016, 1-3pm ET)	Rosdahl	0	05:24 PM
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Approved with approval of meeting.

doc:802 EC-13/091r3

### \*F8.06 – Announcement of 802 EC Interim Telecon (Tuesday 2 Feb. 2016, 1-3pm ET)

- Agenda for Interim EC meeting
- – Tuesday 2 Feb. 2016 1-3PM ET
- Initial Proposed Draft Agenda
  1. Welcome/Intro/Approve Agenda - Nikolich 5 min
  2. Report: Nov EC Action Item Summary - D'Ambrosia 10 min
  3. Report: March 2016 Plenary Status - Rosdahl 3 min
  4. Report on 2018 Future Venue options - Rosdahl/Heile 5 min
  5. Other Reports from WG Chairs
- Per Chairs Guideline – Confirm during the Closing EC Plenary.



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8.07	II*	Call for Tutorials for Mar 2016 Plenary (Monday 14 Mar, 2016)	Rosdahl	0	05:24 PM
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Approved with approval of meeting.

doc:802 EC-13/091r3

### \*F8.07 – Call for Tutorials for March 2016 Plenary

- Tutorials to be held Monday, 14 March 2016
- Tutorial Request form:  
[http://www.ieee802.org/802\\_tutorials/802\\_Tutorial\\_Request\\_Form.doc](http://www.ieee802.org/802_tutorials/802_Tutorial_Request_Form.doc)
- As a reminder please refer to Chair's Guidelines section 2.5 Tutorials for the logistics for participating in sponsoring/presenting a Tutorial.
- Note that Tutorial times will be reduced 10 minutes to allow for presenters to setup and depart.
- All requests for Tutorials must be made by 29 Jan 2016.



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8.08	II*	Announcement of 802 EC Workshop January 23, 2016 (8am-5pm) Hyatt Regency Atlanta, Atlanta, GA.	Rosdahl	0	05:24 PM
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Approved with approval of meeting.

doc:802 EC-15/091c3

### \*F8.08 II Announcement of 802 EC Workshop January 23, 2016 (8am-5pm) Hyatt Regency Atlanta, Atlanta, GA.

- Saturday after the 802 Hosted Interim
- Leadership Workshop Saturday 8am-5pm
- Exec Committee Dinner on Friday night



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Room entered Exec Session 5:40pm

8.09	DT	Get IEEE 802 Renewal (Executive Session)	Marks	15	05:24 PM
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Executive Session Summary –

The 802 EC discussed the “Get IEEE 802” program proposal from the IEEE-SA, and the intent is to have a signed agreement by the end of January 2016.

Exec Session and regular 802 EC Closing Meeting ended at 6pm, as per the Special Orders.

## Summary of Action Items

Agenda Item #4.04 Stephens / Marks	Address topic for Jan Leadership Workshop – “Should there be a coordinated response to IMT 2020 from IEEE 802”
Agenda Item #4.05 Stephens	Address topic for Jan Leadership Workshop - Attendance requirements for obtaining membership
Agenda Item #4.06 Thompson	Address topic for Jan Leadership Workshop on dominance
Agenda Item 4.07 Nikolich	Work with Lach on language regarding indemnification policy.
Agenda Item 4.11 Rosdahl / Law	Arrange session @ January Interim on Friday afternoon to discuss sensitive topics identified as part of Leadership Workshop

## Summary of Motions

### Consent Agenda

4.01	MI*	<b>APPROVE Motion: Approve V1 minutes of Oct conference call</b>
6.014	MI*	SG 1st Extension - IEEE 802.3 Next Generation Ethernet Passive Optical Network (NG-EPON) Study Group
6.015	MI*	SG 1st Extension -IEEE 802.3 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper Study Group
6.031	MI*	SG 1st Extension - IEEE 802.15.12 CLLC Study Group
7.103	ME*	Motion to approve the IEEE 802 Student Paper announcement flyer posted (24-15-0033-01-0000-802-student-paper-competition-flyer.pdf) and officially announce contest.

* Motion #1	Move to approve agenda
Moved	D'Ambrosia
Second	Chaplin
Results	Motion approved unanimously without objection
Motion	15-0-0
Reference	Agenda Item #2.00

* Motion #2	Move to require at least a 3 night stay at the Venetian Macao Hotel in order to get the Meeting Registration discount for the 2016 March Plenary.
Moved	Rosdahl
Second	Shellhammer
Results	14-0-0
Motion	Passes
Reference	Agenda Item # 4.08

* Motion #3	IEEE 802 EC approves IEEE_802_WG_PandP_v17.6.doc (to be renumbered as v18) as the new IEEE 802 Working Group Policies and Procedures and IEEE_802_OM_proposed_v17.3.pdf as the new IEEE 802 EC Operations Manual (to be renumbered as v18).
Moved	Gilb
Second	D'Ambrosia
Results	15-0-0
Motion	Passes
Reference	Agenda Item # 4.09

* Motion #4	The EC approves IEEE_802_Chairs_guidelines_v21.pdf as the IEEE 802 LMSC Chair's Guidelines
Moved	Gilb
Second	D'Ambrosia
Results	15-0-0
Motion	Passes
Reference	Agenda Item # 4.09

* Motion #5	The IEEE 802 LMSC Executive Committee approves the IEEE P802.3ca CSD responses and forwards the IEEE P802.3ca PAR to NesCom
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	Passes
Reference	Agenda Item #5.011

* Motion #6	The IEEE 802 LMSC Executive Committee approves the IEEE P802.3cb CSD responses and forwards the IEEE P802.3cb PAR to NesCom
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	Passes
Reference	Agenda Item #5.012

* Motion #7	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bp 1000BASE-T1 CSD responses (grandfathered 5 Criteria responses) available at the URL < <a href="http://ieee802.org/3/bp/5Criteria.pdf">http://ieee802.org/3/bp/5Criteria.pdf</a> > and grants conditional approval to forward IEEE P802.3bp to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.013

* Motion #8	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bq 25G/40GBASE-T CSD responses available at the URL < <a href="https://mentor.ieee.org/802-ec/dcn/15/ec-15-0069-00-ACSD-802-3bq.pdf">https://mentor.ieee.org/802-ec/dcn/15/ec-15-0069-00-ACSD-802-3bq.pdf</a> > and grants conditional approval to forward IEEE P802.3bq to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.014

* Motion #9	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3br Interspersing Express Traffic CSD responses (grandfathered 5 Criteria responses) available at the URL < <a href="http://ieee802.org/3/br/8023-DMLT-SG-1311-Winkel-5C_Approved.pdf">http://ieee802.org/3/br/8023-DMLT-SG-1311-Winkel-5C_Approved.pdf</a> > and grants conditional approval to forward IEEE P802.3br to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.015

* Motion #10	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3by 25 Gb/s Ethernet CSD responses available at the URL < <a href="http://ieee802.org/3/by/P802_3by_CSD.pdf">http://ieee802.org/3/by/P802_3by_CSD.pdf</a> > and grants unconditional approval to forward IEEE P802.3by to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Approved without objection
Motion	Passes
Reference	Agenda Item #5.016

* Motion #11	The IEEE 802 LMSC Executive Committee confirms the IEEE P802.3bn EPoC CSD responses (grandfathered 5 Criteria responses) available at the URL < <a href="http://ieee802.org/3/bn/5Criteria.pdf">http://ieee802.org/3/bn/5Criteria.pdf</a> > and grants conditional approval to forward IEEE P802.3bn to Sponsor ballot
Moved	Law
Second	D'Ambrosia
Results	Passes without objection
Motion	Passes
Reference	Agenda Item #5.017

* Motion #12	The 802.15 WG requests conditional approval from the EC to submit 802.15.3-REVa draft to Sponsor Ballot
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.031

* Motion #13	802.15 requests approval from the EC to submit the P802.15-REVC-D02 draft to RevCom.
Moved	Heile
Second	Gilb
Results	Approved with objection
Motion	passes
Reference	Agenda Item #5.032

* Motion #14	802.15 requests conditional approval from the EC to submit the IEEE P802.15.4n-D5.0 draft or final version to RevCom and re-confirms the 5C.
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.033

* Motion #15	802.15 Working Group requests conditional approval from the EC to submit the 802.15.4q draft D7.0 or final version, to RevCom and reconfirms the 5C.
Moved	Heile
Second	Chaplin
Results	12-1-2
Motion	Passes
Reference	Agenda Item #5.034

* Motion #16	The 802.15 WG requests the EC approve the 802.15.3d CSD (15-15-0683-01-003d) and further approve forwarding the 802.15.3d Change PAR (15-15-0682-02-003d) to NesCom
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.035

* Motion #17	The 802.15 WG requests the EC approve the 802.15.4t CSD (15-15-0739-01) and further approve forwarding the 802.15.4t Amendment PAR (15-15-0738-01) to NesCom
Moved	Heile
Second	Gilb
Results	9-3-3
Motion	Passes
Reference	Agenda Item #5.036

* Motion #18	The 802.15 WG requests the EC approve the 802.15.4u CSD (15-15-0755-01) and further approve forwarding the 802.15.4u Amendment PAR (15-15-0754-01) to NesCom
Moved	Heile
Second	Gilb
Results	Approved without objection
Motion	passes
Reference	Agenda Item #5.037

* Motion #19	To forward an IEEE P802.16.3 withdrawal request to NesCom
Moved	Marks
Second	Godfrey
Results	Approved without objection
Motion	Approved.
Reference	Agenda Item #5.041

* Motion #20	To forward, to NesCom, PAR P802.16s (IEEE 802.16-15-0051-00 and accept the accompanying CSD (IEEE 802.16-15—0052-00)
Moved	Marks
Second	Godfrey
Results	3-7-5
Motion	Fails
Reference	Agenda Item #5.042

* Motion #21	EC approves the CSD for 802d (URN Namespace)and forwards the 802d PAR to NesCom. <ul style="list-style-type: none"> <li>CSD: <a href="http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespae-CSD-1115.pdf">http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespae-CSD-1115.pdf</a></li> <li>PAR: <a href="http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespae-PAR-1115-v01.pdf">http://www.ieee802.org/1/files/public/docs2015/new-parsons-URN-Namespae-PAR-1115-v01.pdf</a></li> </ul>
Moved	Parsons
Second	Thaler
Results	Approved without objections
Motion	passes
Reference	Agenda Item #5.091

* Motion #22	EC approves the CSD and forwards the P802.1CQ (Multicast and Local Address Assignment) PAR to NesCom. <ul style="list-style-type: none"> <li>CSD: <a href="http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-1CQ-csd-local-address-prot-1115.pdf">http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-1CQ-csd-local-address-prot-1115.pdf</a></li> <li>PAR: <a href="http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-clean-1CQ-par-local-address-prot-1115-v0.pdf">http://www.ieee802.org/1/files/public/docs2015/dcb-thaler-clean-1CQ-par-local-address-prot-1115-v0.pdf</a></li> </ul>
Moved	Parsons
Second	Thaler
Results	14-0-0
Motion	passes
Reference	Agenda Item #5.092
* Motion #23	EC approves to forward the P802.1BA/Cor1 PAR to NesCom.

Moved	PAR: <a href="http://ieee802.org/1/files/public/docs2015/new-P802-1BA-2011-Cor-1-draft-PAR-1115.pdf">http://ieee802.org/1/files/public/docs2015/new-P802-1BA-2011-Cor-1-draft-PAR-1115.pdf</a>
Second	Parsons
Results	Thaler
Motion	Approved without objection
Reference	passes
	Agenda Item #5.093

* Motion #24	EC approves to forward P802.1AX-2014/Cor-1 D0.2 (Link Aggregation - Corrigendum 1: Technical and Editorial Corrections) to Sponsor Ballot.
Moved	Parsons
Second	Law
Results	Approved without objections
Motion	passes
Reference	Agenda Item #5.094

* Motion #25	<ul style="list-style-type: none"> <li>EC confirms the CSD <a href="http://grouper.ieee.org/groups/802/PARs/2012-03/Qbv-pannell-draft-5C-0112-v02.pptx">http://grouper.ieee.org/groups/802/PARs/2012-03/Qbv-pannell-draft-5C-0112-v02.pptx</a></li> <li>and approves forwarding P802.1Qbv to RevCom.</li> </ul>
Moved	Parsons
Second	Thaler
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #5.095

* Motion #26	EC unconditionally approves to forward P802.1Q:2014/ Cor-1 (Bridges and Bridged Networks – Technical and Editorial Corrections) to RevCom.
Moved	Parsons
Second	Thaler
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #5.096

* Motion #27	EC conditionally approves to forward P802.1AB-REV (Station and MAC Connectivity Discovery) to RevCom
Moved	Parsons
Second	Thaler
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #5.097

* Motion #28	The IEEE 802 LMSC Executive Committee grants approval for the formation of the following Study Groups within IEEE 802.3
	[1] IEEE 802.3 50 Gb/s Ethernet over a single lane Study Group
	[2] IEEE 802.3 Next generation 100 Gb/s and 200 Gb/s Study Group
	[3] IEEE 802.3 25Gb/s Ethernet PMD(s) for single mode fiber Study Group
Moved	Law
Second	D'Ambrosia
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #6.011, 6.012, 6.013

* Motion #29	The IEEE 802 Executive Committee endorses the IEEE 802.3 Next Generation Enterprise/Campus/Data Center ICAID found in <a href="http://ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf">http://ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf</a>
Moved	Law
Second	D'Ambrosia
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #5.011

* Motion #30	The IEEE 802 LMSC Executive Committee approves the draft liaison letter to ISO/IEC JTC1 SC6 to liaise IEEE Std 802.3bw-2015 100BASE-T1. The draft liaison letter, approved by the IEEE 802.3 Working Group with editorial license granted to the IEEE 802.3 Working Group Chair, can be found at <a href="http://www.ieee802.org/3/minutes/nov15/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_1115_draft.pdf">http://www.ieee802.org/3/minutes/nov15/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_1115_draft.pdf</a> .
Moved	Law
Second	D'Ambrosia
Results	15-0-0
Motion	passes
Reference	Agenda Item #7.014

* Motion #31	802.15 requests EC approval to forward P802.15.3-RevA to ISO/IEC JTC1 SC6, for information under the PSDO agreement, once Sponsor balloting begins.
Moved	Heile
Second	Gilb
Results	Approved with no objections
Motion	passes
Reference	Agenda Item #7.031

* Motion #32	To approve documents 18-15/0068 (the cover letter) and 18-14/0064r1, a response to an ITU-R Working Party 1A request to review and provide comments on REPORT ITU-R SM.2351-0, "Smart grid utility management systems" and forward to WP1A.
Moved	Lynch
Second	Godfrey
Results	Approved without objection
Motion	Passes
Reference	7.051

* Motion #33	Motion to Forward IEEE Std. 802.22a-2014 and IEEE Std. 802.22b-2015 to the ISO/IEC/JTC1 to start the 60 Day FDIS Ballot Process under the PSDO Agreement.
Moved	Mody
Second	Heile
Results	Approved without objection
Motion	passes
Reference	Agenda Item #7.091

* Motion #34	EC approves forwarding to ISO/IEC JTC1 SC6 under the PSDO agreement: P802.1AB-Rev for information Comments responses on 60-day ballots of IEEE 802.1BA-2011 and IEEE 802.1BR-2012 FDIS comment responses on IEEE Std 802-2014. IEEE Std 802.1Qbv for adoption
Moved	Parsons
Second	Thaler
Results	Approved without objections
Motion	passes
Reference	Agenda Items # 7.111, 7.112, 7.113, and 7.114

* Motion #35	EC approves an IEEE press release for 802.1AX (Link Aggregation) <a href="http://ieee802.org/1/files/public/docs2015/ax-2014-press-release-1115-v01.pdf">http://ieee802.org/1/files/public/docs2015/ax-2014-press-release-1115-v01.pdf</a> .
Moved	Parsons
Second	Thaler
Results	Approved without objections
Motion	passes
Reference	Agenda Item #7.120