

**MINUTES (Unconfirmed) IEEE 802 LMSC  
EXECUTIVE COMMITTEE MEETING, Revision0**

**Prepared by John D'Ambrosia, IEEE 802 Recording Secretary**

Friday, Nov 16, 2012 – 1:00 p.m.  
All times Central Standard Daylight Time (CST)

San Antonio, TX, USA

**EC members present:**

- Paul Nikolich – Chair, IEEE 802 LAN/MAN Standards Committee
- Pat Thaler – Vice Chair, IEEE 802 LAN/MAN Standards Committee
- James Gilb – Vice Chair, IEEE 802 LAN/MAN Standards Committee, Chair IEEE 802 EC Smart Grid Study Group
- 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
- Tony Jeffree – Chair, IEEE 802.1 – HILI Working Group
- David Law – Chair, IEEE 802.3 – Ethernet Working Group
- Bruce Kraemer – 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

**Nonvoting EC members present:**

- Buzz Rigsbee – Member Emeritus
- Geoff Thompson – Member Emeritus

**Nonvoting EC members absent:**

- John Lemon – Chair, IEEE 802.17 (hibernating) – Resilient Packet Ring Working Group
- Canchi Radhakrishna – Chair, IEEE 802.20 (hibernating) – Mobile Broadband Wireless Access Working Group

v04		<b>DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING</b>			
		<b>Friday 1:00PM-6:00PM</b>			
<b>Key:</b>		<b>ME - Motion, External, MI - Motion, Internal, DT- Discussion Topic, II - Information Item</b>			
		<b>Special Orders</b>			
		<b>Category (* = consent agenda)</b>			
<b>1.00</b>		<b>MEETING CALLED TO ORDER</b>	<b>Nikolich</b>	<b>1</b>	<b>01:00 PM</b>

Meeting called to Order at 1pm

<b>2.00</b>	<b>MI</b>	<b>APPROVE OR MODIFY AGENDA</b>	<b>Nikolich</b>	<b>10</b>	<b>01:01 PM</b>
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Noted Changes to Agenda – ec-12-0049-004EC-nov-2012-closing-agenda.xlsx)

- Strike Item 4.03
- 4.05 should be ME
- 7.11 and 7.12 should be ME
- Change revision number to 5

Agenda file revised to ec-12-0049-05-00EC-nov-2012-closing-agenda.xlsx

Motion#1:	Move to approve agenda (ec-12-0049-05-00EC-nov-2012-closing-agenda.xlsx)		
Moved	D'Ambrosia		
Second	Lynch		
Results	(y/n/a)	14 / 0 / 0	
Motion	Passes		

#### Approved Agenda –

<b>v05</b>		<b>DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING</b>			
		<b>Friday 1:00PM-6:00PM</b>			
<b>Key:</b>		<b>ME - Motion, External, MI - Motion, Internal, DT- Discussion Topic, II - Information Item</b>			
		<b>Special Orders</b>			
		<b>Category (* = consent agenda)</b>			
<b>1.00</b>		<b>MEETING CALLED TO ORDER</b>	<b>Nikolich</b>	<b>1</b>	<b>01:00 PM</b>
<b>2.00</b>	<b>MI</b>	<b>APPROVE OR MODIFY AGENDA</b>	<b>Nikolich</b>	<b>10</b>	<b>01:01 PM</b>
<b>3.00</b>	<b>II</b>	<b>Announcements from the Chair (Introduce to Konstantinos)</b>	<b>Nikolich</b>	<b>5</b>	<b>01:11 PM</b>
<b>3.01</b>	<b>MI</b>	<b>WG Officer Confirmation (802.16 Vice Chair, Harry Bims, 802.24 Chair, James Gilb, 802.24 Vice Chair, Tim Godfrey)</b>	<b>Nikolich</b>	<b>5</b>	<b>01:16 PM</b>
<b>4.00</b>		<b>LMSC Internal business</b>			<b>01:21 PM</b>
<b>4.01</b>	<b>DT</b>	<b>802 Overview and Architecture report</b>	<b>Gilb</b>	<b>5</b>	<b>01:21 PM</b>
<b>4.02</b>	<b>MI</b>	<b>802 EC Sponsored Interims - Jan 2015 and Jan 2016</b>	<b>Rosdahl</b>	<b>10</b>	<b>01:26 PM</b>
<b>4.03</b>	<b>MI</b>	<b>Approval of Non-NA/Non-US site for March 2014</b>	<b>Rosdahl</b>	<b>5</b>	<b>01:36 PM</b>
<b>4.04</b>	<b>DT</b>	<b>Future Venues</b>	<b>Rosdahl</b>	<b>10</b>	<b>01:41 PM</b>
<b>4.05</b>	<b>ME</b>	<b>Treasurer's report</b>	<b>Chaplin</b>	<b>10</b>	<b>01:51 PM</b>
<b>4.06</b>	<b>MI</b>	<b>P&amp;P Approval</b>	<b>Gilb</b>	<b>10</b>	<b>02:01 PM</b>
<b>4.07</b>	<b>MI</b>	<b>OM, 5C, WG P&amp;P, Chair's Guidelines Approval</b>	<b>Gilb</b>	<b>15</b>	<b>02:11 PM</b>
<b>4.08</b>	<b>MI</b>	<b>IEEE 802 Stds Distribution (Digital Media)</b>	<b>D'Ambrosia</b>	<b>10</b>	<b>02:26 PM</b>
<b>5.00</b>		<b>IEEE Standards Board and Sponsor Ballot Items</b>		<b>0</b>	<b>02:36 PM</b>
<b>5.01</b>	<b>ME</b>	<b>IEEE 802.11, P802.11aq (PAD) to NesCom</b>	<b>Kraemer</b>	<b>4</b>	<b>02:36 PM</b>

5.02	ME	IEEE 802.11, P802.11ak (GLK) to NesCom	Kraemer	4	02:40 PM
5.03	ME	IEEE 802.15, P802.15.4j to RevCom (Conditional)	Heile	4	02:44 PM
5.04	ME	IEEE 802.15, P802.15.4k to Sponsor Ballot (Conditional)	Heile	4	02:48 PM
5.05	ME	IEEE 802.15, P802.15.4q PAR to NesCom	Heile	4	02:52 PM
5.06	ME	IEEE 802.15, P802.15.4 Corr1 (Submitted under 48 hr rule) to NesCom	Heile	4	02:56 PM
5.07	ME	IEEE 802.16, P802.16n to RevCom (Conditional)	Marks	4	03:00 PM
5.08	ME	IEEE 802.16, P802.16.1.a to RevCom (Conditional)	Marks	4	03:04 PM
5.09	ME	IEEE 802.16, P802.16r PAR to NesCom	Marks	4	03:08 PM
5.10	ME	IEEE 802.21, P802.21 Revision PAR to NesCom	Das	4	03:12 PM
5.11	ME	IEEE 802.21, P802.21.1 PAR to NesCom	Das	4	03:16 PM
5.12	ME	IEEE 802.22, P802.22.1 Revision PAR to NesCom	Mody	4	03:20 PM
5.13	ME	IEEE 802.1, P802.1Qca SPB Path Control and Reservation PAR to NesCom	Jeffree	4	03:24 PM
5.14	ME	IEEE 802.1, P802.1Qbz Wired and Wireless Bridging PAR to NesCom	Jeffree	4	03:28 PM
5.15	ME	IEEE 802.1, P802 O&A to Sponsor Ballot (Conditional)	Jeffree	4	03:32 PM
5.16	ME	IEEE 802.1 P802.1AEbw D1.1 to RevCom	Jeffree	4	03:36 PM
5.17	ME	IEEE 802.1, P802.1AB-Cor1 to Sponsor Ballot (Conditional)	Jeffree	4	03:40 PM
5.18	ME	IEEE 802.1, P802.1AS-Cor1 to Sponsor Ballot (Conditional)	Jeffree	4	03:44 PM
5.19	ME	IEEE 802.3, P802.3bj PAR modification to NesCom	Law	4	03:48 PM
5.20	ME	IEEE 802.3, P802.3bp PAR to NesCom	Law	4	03:52 PM
5.21	ME	IEEE 802.3, P802.3.1 to Sponsor Ballot	Law	4	03:56 PM
6.00		Executive Committee Study Groups, Working Groups, TAGs			04:00 PM
6.01	MI	IEEE 802.11, Pre-association Discovery (PAD) SG (3rd Extension)	Kraemer	5	04:00 PM
6.02	MI	IEEE 802.11, General Link (GLK) SG (2nd Extension)	Kraemer	5	04:05 PM
6.03	MI*	IEEE 802.15, contingency extension of Ultra Low Power SG (2nd Ext)	Heile	0	04:10 PM
6.04	MI	IEEE 802.15, Layer2 Routing Study Group (New SG)	Heile	5	04:10 PM
6.05	II*	IEEE 802.16, IEEE 802.16-12-0680-00-03R0 (identical to 802.18-12-0116-01) for review as an IEEE 802.16 communication under OM 8.2.2 (Sponsor subgroup communications with government bodies)	Marks	0	04:15 PM
6.06	MI	IEEE 802.16, OmniRAN Study Group (New EC Study Group)	Marks	10	04:15 PM
6.07	MI	802.24, Smart Grid Group of Standards, Endorsement of 24-12-0033-01	Gilb	10	04:25 PM
6.08	MI*	IEEE 802.1, 802.11 Bridging Study Group (1st Extension)	Jeffree	0	04:35 PM
6.09	MI	IEEE 802.3, Reduced Twisted Pair Gigabit Ethernet Study Group (2nd Extension)	Law	5	04:35 PM
6.10	MI*	IEEE 802.3, Next Generation BASE-T Study Group (1st extension)	Law	0	04:40 PM
6.11	MI	IEEE 802.3, Distinguished minimum latency traffic in a converged traffic environment Study Group (new SG)	Law	5	04:40 PM
7.00		LMSC Liaisons and External Interface			04:45 PM
7.01	ME	IEEE 802.1, IEEE Std 802.1X and IEEE Std 802.1AE to ISO/IEC for approval as International Standards under the PSDO agreement	Jeffree	5	04:45 PM
7.02	ME	IEEE-SA - ETSI MoU	Law / All	5	04:50 PM
7.03	ME*	IEEE 802.11, Press Release - IEEE 802.11ad (Very High Throughput - 60 GHz)	Kraemer	5	04:55 PM
7.04	II	IEEE 802.11 submission to D. Romascanu (IETF/IEEE 802 areas of shared interest)	Kraemer	5	05:00 PM
7.05	II	IEEE 802.11 submission to IEEE-SA Registration Authority	Kraemer	5	05:05 PM

7.06	II	IEEE 802.11 liaison to the Wi-Fi Alliance (WFA)	Kraemer	5	05:10 PM
7.07	ME*	IEEE 802.18, To Approve 18-12-0117-01 "Draft request to FCC for a Public Notice requesting comments to Progeny M-LMS testing"	Lynch	0	05:15 PM
7.08	ME*	<del>IEEE 802.1-C388, To Approve 18-12-0116-01 "Report to External Organizations on P802.16.3 Progress"</del>	Covered in 6.05	0	05:15 PM
7.09	ME*	IEEE 802.18, To approve IEEE 802.18-12-0118-01 "Draft LS to WP 5D: Comments on Working Doc toward a PDNR on the use of IMT for broadband PPDR" under OM subclause 8.2.1	Lynch	0	05:15 PM
7.10	ME*	IEEE 802.18, 18-12-0114-02 "Draft comments to FCC Wireless Microphone Refresh Proceeding"	Lynch	0	05:15 PM
7.11	ME	IEEE 802.24, Press Release - IEEE 802 Wireless Standards / Smart Grids	Gilb	2	05:15 PM
7.12	ME	IEEE 802.24, Press Release - IEEE 802.24 Smart Grid Formation	Gilb	2	05:17 PM
7.13	ME	IEEE 802.24, Approval of SIF contributions to SGIP (24-12-0011-03, 24-12-0029-00)	Gilb	5	05:19 PM
7.14	ME	IEEE 802.24, 802.24 802 Package of SUN Standards	Gilb	5	05:24 PM
7.15	II*	IEEE 802.1, Liaison response to the MEF liaison L00156-000 (CFM Link Trace Trigger).	Jeffree	0	05:29 PM
7.16	II*	IEEE 802.1, Liaison response to the ITU liaison ols 443 (Bridging Transparent Clock frames)	Jeffree	0	05:29 PM
7.17	II*	Liaison letter to ISO/IEC JTC1/SC 25 WG3: Response to technical report for 40 Gb/s cabling systems liaison letter	Law	0	05:29 PM
8.00		IEEE SA items			05:29 PM
8.01	II	Low Price Single Copy Sales Likely to Discontinue	Nikolich	5	05:29 PM
9.00		Information Items			05:34 PM
9.01		IEEE 802 Leadership Workshop and Agenda	Marks	5	05:34 PM
9.02	II	JTC1 ad-hoc report	Myles	5	05:39 PM
9.03	II	IEEE 802 / IETF Update	Thaler	5	05:44 PM
9.04	II	Regulatory report	Lynch	5	05:49 PM
9.05	II	Executive secretary report	Rosdahl	5	05:54 PM
9.06	II	IEEE 802 EC Interim Teleconference 5 Feb 2013, 1-3PM ET	Rosdahl	1	05:59 PM
9.07	II	Call for Tutorials for March 2013 Plenary	Rosdahl	2	06:00 PM
9.08	II*	Appeals report -No items to report	D'Ambrosia	0	06:02 PM
9.09	II	Network Services report	Alfvin	5	06:02 PM
10.00		ADJOURN SEC MEETING	Nikolich		06:00 PM

3.00	II	Announcements from the Chair (Introduce to Konstantinos)	Nikolich	5	01:11 PM
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Nikolich introduced Dr. Ing. Konstantinos Karachalios, IEEE, Managing Director, Standards Association.

<b>3.01</b>	<b>MI</b>	<b>WG Officer Confirmation (802.16 Vice Chair, Harry Bims, 802.24 Chair, James Gilb, 802.24 Vice Chair, Tim Godfrey)</b>	<b>Nikolich</b>	<b>5</b>	<b>01:16 PM</b>
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Nikolich displayed

Nichol displayed Dot00-NOV\_2012-officer confirmatioins.pdf

Recording Secretary confirmed that endorsement and affiliation documentation for all had been received.

## Officer Confirmations

- 802.16 Vice Chair-Harry Bims
  - 15 out of 16 votes
- 802.24 Chair-James Gilb; Vice Chair-Tim Godfrey
  - 21/0/0
- EC Motion: Confirm above officers
  - Moved: D'Ambrosia      Second: Law
  - Yes/No/Abs

25

Motion#2	Confirm above officers
Moved	D'Ambrosia
Second	Law
Results	(y/n/a)      13 / 0 / 1
Motion	Passes

<b>4.00</b>		<b>LMSC Internal business</b>			<b>01:21 PM</b>
<b>4.01</b>	<b>DT</b>	<b>802 Overview and Architecture report</b>	<b>Gilb</b>	<b>5</b>	<b>01:21 PM</b>

Gilb gave verbal update. All 69 comments were resolved. There will be at least one recirculation. Sponsor ballot pool to be reformed. Gilb indicated that the effort to reform the ballot pool to be initiated in near future.

<b>4.02</b>	<b>MI</b>	<b>802 EC Sponsored Interims - Jan 2015 and Jan 2016</b>	<b>Rosdahl</b>	<b>10</b>	<b>01:26 PM</b>
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Rosdahl presented slide 20 from ec-12-0063-r1

Slide 20 Motion on Slide #20

Nov 2012

doc.: IEEE 802 EC-12/00063r1

### **F4.02 MMI "Approval of 802 Sponsored Interim - 2015 and 2016"**

**Motion:**

**Authorize and approve an 802 sponsored Interim Session  
January 10-17, 2015 and January 16-23, 2016 at the  
Atlanta Hyatt Regency in Atlanta, Georgia.**

- **Moved: Jon Rosdahl**
- **Second: Bob Heile**
- **Y \_ N \_ A \_**

Submission

Slide 20

Jon Rosdahl, CSR

Individuals in the EC spoke in approval of the meeting, but it was noted that not all Working Groups needed to attend these interims.

Motion#3	Authorize and approve an 802 sponsored Interim Session January 10-17, 2015 and January 16-23, 2016 at the Atlanta Hyatt Regency in Atlanta, Georgia
Moved	Jon Rosdahl
Second	Bob Heile
Results	(y/n/a) 14/0/0
Motion	Passes

4.04	DT	Future Venues	Rosdahl	10	01:41 PM
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Rosdahl presented slides 21, 22,23, 24, 25, 26, 27, 28, from ec-12-0063-r1

Nov 2012 doc.: IEEE 802 EC-12/00063r1

## Regional Targets

- Are there any of the Regions that should be deleted from consideration due to location?
- Optimally, we will try to rotate regions

Submission Slide 23 Jon Rosdahl, CSR

Nov 2012 doc.: IEEE 802 EC-12/00063r1

## F4.04 DT - Future Venues

- Discussion on Region
- Discussion on Generic Budget.

Submission Slide 21 Jon Rosdahl, CSR

## Current locations with RFPs

RFPs have been sent to the following prospective Venues:

- Denmark – Copenhagen
- Sweden – Gothenburg
- Japan -- Yokohama
- Germany -- Berlin -
- P.R. China – Beijing
- P.R. China – Shanghai
- Ireland , Dublin
- England, London
- Korea – Seoul
- Korea – Daegu (located 150 miles from Seoul)

## Generic Budget

- **Three main points of information:**
  - Meeting fee
  - Subsidy
  - Room rate
- **Just like any project, if you change one, it effects the other two, and so it is a process to balance all three**
- **Meeting on Wednesday discussed how to tweak the variables.**



## Generic Budget - 2

- **Two options:**
  - 1. Meeting fee Constant - changed by EC
  - 2. Meeting fee increases for the Non-US/Non-NA Session
  - E.g. 550 – 650 – 550      or      600 – 600 – 600
- **Potential Subsidy from 802 less than \$300K**
- **Room rate of \$250 or less**

Submission

Slide 25

Jon Rosdahl, CSR

## Generic Budget - 3

**Straw Poll: Would you support a Non-US/Non-NA meeting that met the following criteria:**

**Flat Early bird - Discounted rate: \$550**

**Subsidy not to exceed \$300k**

**Room Rate less than \$250 per night**

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Submission

Slide 26

Jon Rosdahl, CSR

## **Reminder of Venue Selection Process**

- **From IEEE 802 LMSC Operations Manual Revised September 4, 2012 Page 7:**

- 5.1.2 IEEE 802 LMSC Plenary Venue selection  
The Executive Secretary presents proposed plenary venues to the Sponsor. Proposed plenary venues shall consist of different regions of the world. Each year there shall be at least one plenary that is both outside the United States and the North American continent.
- The venue and date for each plenary session shall be approved by the Sponsor prior to signing venue-related commitments on behalf of the IEEE 802 LMSC.
- Venue contracts are negotiated by the Meeting manager. The venue contract summary is presented for approval to the EC. Upon approval of the EC, the EC Executive Secretary submits the venue contract(s) to the IEEE procurement office to formally execute the contract.

Submission

Slide 27

Jon Rosdahl, CSR

Nov 2012

doc.: IEEE 802 EC-12/00063r1

## **November 2012 Action Plan:**

**Nov 30 -- Responses from the outstanding RFP expected**

**Jan 15 -- Negotiations with Venues to identify options that meet Generic Budget criteria**

**Feb 5 - Top Two offers to be presented for EC vote on Interim call**

**Feb 20 -- Final Venue and Contract approval for March 2014 meeting to be ready for approval and announcement March 2013.**

Submission

Slide 28

Jon Rosdahl, CSR

Discussion of venues. A preference for locations within 50 miles of international airport

Strawpoll #1: All in favor of criteria cited on Slide 26

Results:

13 in favor

2 against

Will be reviewed on next EC conference call

4.05	MI	Treasurer's report	Chaplin	10	01:51 PM
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Chaplin presented EC-12-0071-01.

## Treasurer's Report

2012-11-16

### 2012 T1 (Jan-Apr) Overview

Meeting Surplus/Loss	(\$80,777.00)
Other Income	\$1,257.90
Other Expenses	(\$6,953.92)
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Net Change	(\$86,473.02)
Reserve	\$925,841.51
Petty Cash	\$2,000.00
Singapore Deposit	SGD 215,336.82
Singapore Deposit USD as of 2012-04-30	\$174,102.98

# 2012 T1 Meeting Waikoloa Income

IEEE Project 802 Statement of Operations March 2012 Plenary Session Waikoloa As of 05 July 2012									
	Actual				Budget			Var	Var %
Income	Fee	Net	Net Amt	%	Net	Net Amt	%		
Pre-registration	\$ 800	1	\$ 800	0%	27	\$21,600	4%	(\$20,800)	-96%
Pre-registration (with discount)	\$ 500	450	\$ 225,000	61%	404	\$247,000	65%	(\$22,000)	-9%
Pre-Registration Early Cancellation	\$ (800)	0	\$ -	0%			0%		
Pre-Registration Early Cancellation (with discount)	\$ (500)	-3	\$ (4,000)	-1%			0%		
Pre-Registration Late Cancellation	\$ (700)	0	\$ -	0%			0%		
Pre-Registration Late Cancellation (with discount)	\$ (400)	-11	\$ (4,400)	-1%			0%		
Pre-Registration no-show	\$ -	-4	\$ -	0%			0%		
Web-registration	\$ 900	10	\$ 9,000	2%	24	\$21,600	3%	(\$12,600)	-58%
Web-registration (with discount)	\$ 600	185	\$ 111,000	30%	150	\$90,000	20%	\$21,000	23%
Web-registration Cancellation	\$ (800)	0	\$ -	0%			0%		
Web-registration Cancellation (with discount)	\$ (500)	-4	\$ (2,000)	-1%			0%		
Web-registration no-show	\$ -	-2	\$ -	0%			0%		
Onsite-registration	\$ 1,000	-2	\$ 2,000	1%	24	\$24,000	3%	(\$22,000)	-92%
Onsite-registration (with discount)	\$ 700	48	\$ 33,600	9%	42	\$28,400	6%	\$4,200	14%
Student-registration	\$ 100		\$ -	0%	0	\$0	0%	\$0	
Net Registration Income	\$ 570	667	\$ 371,000	86%	761	\$433,600	90%	(\$62,600)	-14%
Non-registration Income									
Deadbeat collections			\$ -	0%			0%	\$0	
Comps, Commissions & Discounts			\$ 59,897	14%		\$ 50,000	10%	\$9,897	20%
Other			\$ -	0%		\$ -	0%	\$0	
<b>Total Session Income</b>			<b>\$ 430,897</b>	<b>14%</b>		<b>\$ 483,600</b>	<b>10%</b>	<b>(\$52,703)</b>	<b>-11%</b>

# 2012 T1 Meeting Waikoloa Expense

IEEE Project 802 Statement of Operations March 2012 Plenary Session Waikoloa As of 05 July 2012									
	Actual				Budget			Var	Var %
Expenses									
Audio Visual	\$ 25,975	5%			\$ 20,000	4%	\$5,975	30%	
Bank Charges		0%			\$ -300	0%	(\$300)	-100%	
Credit Card Discounts & Fees	\$ 19,199	4%			\$ 21,600	4%	(\$2,401)	-11%	
Equipment Expenses		0%			\$ 2,000	0%	(\$2,000)	-100%	
Get IEEE 802 Contribution (Net paid attendees * \$75.00)	\$ 50,025	10%			\$ 57,075	10%	(\$7,050)	-12%	
Infrastructure		0%			\$ 7,000	1%	(\$7,000)	-100%	
Copier		0%				0%	\$0		
Electrical	\$ 7,806	2%			\$ 4,000	1%	\$3,806	95%	
Phone		0%			\$ 500	0%	(\$500)	-100%	
Reg Counters		0%			\$ 2,500	0%	(\$2,500)	-100%	
Meeting Administration	\$ 69,862	14%			\$ 76,870	14%	(\$6,948)	-9%	
Misc Meeting Expenses	\$ 1,516	0%			\$ 7,700	1%	(\$6,184)	-80%	
Audit		0%			\$ -	0%	\$0		
Copying		0%			\$ 1,000	0%	(\$1,000)	-100%	
Hotel Grats	\$ 1,200	0%			\$ 1,500	0%	(\$300)	-20%	
Insurance		0%				0%	\$0		
Other: Keys, Wireless Interimproj.	\$ 316	0%			\$ 4,800	1%	(\$4,484)	-93%	
Supplies		0%			\$ 400	0%	(\$400)	-100%	
Networking	\$ 80,918	16%			\$ 86,600	16%	(\$5,682)	-7%	
Shipping	\$ 17,532	3%			\$ 20,000	4%	(\$2,468)	-12%	
Site Survey	\$ 6,419	1%			\$ -	0%	\$6,419		
Social	\$ 53,277	11%			\$ 67,515	16%	(\$33,538)	-38%	
Food & Beverage	\$ 89,452	17%			\$ 95,125	17%	(\$5,674)	-6%	
Lunches	\$ 96,799	19%			\$ 76,100	14%	\$20,699	27%	
<b>Total Session Expense</b>	<b>\$ 611,734</b>	<b>100%</b>			<b>\$ 557,965</b>	<b>100%</b>	<b>(\$53,769)</b>	<b>-9%</b>	
<b>Net Session Surplus/(Loss)</b>	<b>\$ (80,777)</b>				<b>\$ (74,365)</b>				
Lunch Subsidy	\$ (66,700)				\$ (76,100)				

## 2012 T1 Other Income

Interest	\$1,257.90
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## 2012 T1 Other Expenses

Cash Deposited Fee Reversal	\$40.00
802 January Interim LCDs	(\$4,800.00)
Checks for WFB Checking	(\$109.42)
J. Carlo: Flowers, donation	(\$367.42)
D. Loughry: Flowers, donation	(\$374.47)
M. Sherman, B. Grow: Gifts	(\$342.61)
University Outreach Setup	(\$1,000.00)
Total	(\$6,953.92)

# 2012 T2 (May-Aug) Overview

Meeting Surplus/Loss	\$14,520.49
Other Income	\$1,446.85
Other Expenses	(\$8,138.05)
-----	
Net Change	\$7,829.29
Reserve	\$933,670.80
Petty Cash	\$2,000.00
Singapore Deposit	SGD 215,336.82
Singapore Deposit USD as of 2012-08-31	\$172,601.49

## 2012 T2 Meeting San Diego Income

IEEE Project 802									
Meeting Budget									
July 2012 Plenary Session									
San Diego									
As of 11 November 2012									
	Actual				Budget				
Income	Fee	Net	Net Amt	%	Net	Net Amt	%	Var	Var %
Pre-registration	\$ 700	15	\$ 10,500	3%	10	\$7,000	2%	\$3,500	50%
Pre-registration (w/ th discount)	\$ 400	528	\$ 211,200	56%	450	\$180,000	69%	\$31,200	17%
Pre-Registration Early Cancellation	\$ (700)		\$ -	0%			0%		
Pre-Registration Early Cancellation (w/ th discount)	\$ (400)	-3	\$ (1,200)	0%			0%		
Pre-Registration Late Cancellation	\$ (600)		\$ -	0%			0%		
Pre-Registration Late Cancellation (w/ th discount)	\$ (300)	-12	\$ (3,600)	-1%			0%		
Pre-Registration no-show	\$ -	-1	\$ -	0%			0%		
Web-registration	\$ 800	31	\$ 24,800	7%	10	\$8,000	2%	\$16,800	210%
Web-registration (w/ th discount)	\$ 500	208	\$ 104,000	27%	150	\$75,000	23%	\$29,000	39%
Web-registration Cancellation	\$ (700)		\$ -	0%			0%		
Web-registration Cancellation (w/ th discount)	\$ (400)		\$ -	0%			0%		
Web-registration no-show	\$ -	-1	\$ -	0%			0%		
Onsite-registration	\$ 900	10	\$ 9,000	2%	5	\$4,500	1%	\$4,500	100%
Onsite-registration (w/ th discount)	\$ 600	41	\$ 24,600	6%	25	\$15,000	4%	\$9,600	64%
Student-registration	\$ 100	5	\$ 750	0%	0	\$0	0%	\$750	
University Outreach	\$ 25	11	\$ 275	0%	0	\$0	0%	\$275	
Net Registration Income	\$ 445	888	\$ 380,325	86%	650	\$289,500	83%	\$90,825	31%
Non-registration income									
Deadbeat collections			\$ -	0%			0%	\$0	
Comps, Commissions & Discounts			\$ 60,669	16%		\$ 60,000	17%	\$669	1%
Other			\$ -	0%		\$ -	0%	\$0	
Total Session Income			\$ 440,994	14%		\$ 349,500	17%	\$91,494	25%



# 2012 T2 Meeting San Diego Expense

IEEE Project 802 Meeting Budget July 2012 Plenary Session San Diego As of 11 November 2012					
Expenses	Actual		Budget	Var	Var %
Audio Visual	\$ 22,036	8%	\$ 20,000	\$ 2,036	10%
Credit Card Discounts & Fees	\$ 19,611	8%	\$ 14,475	\$ 5,136	35%
Equipment Expenses	\$ -	0%	\$ -	\$ 0	
Get IEEE 802 Contribution (Net paid attendees * \$75.00)	\$ 60,600	14%	\$ 48,750	\$ 11,850	24%
Infrastructure	\$ 2,436	1%	\$ 3,850	\$ (1,414)	-37%
Copyer	\$ -	0%	\$ -	\$ 0	
Electrical	\$ -	0%	\$ 1,500	\$ (1,500)	-100%
Phone	\$ -	0%	\$ 350	\$ (350)	-100%
Reg Counters	\$ 2,436	1%	\$ 2,000	\$ 436	22%
Meeting Administration	\$ 76,006	18%	\$ 62,000	\$ 14,006	23%
Misc Meeting Expenses	\$ 1,899	0%	\$ 1,900	\$ (1)	0%
Audit	\$ -	0%	\$ -	\$ 0	
Copying	\$ 78	0%	\$ 200	\$ (122)	-61%
Hotel Grats	\$ 1,520	0%	\$ 1,200	\$ 320	27%
Insurance	\$ -	0%	\$ -	\$ 0	
Other: Keys	\$ 300	0%	\$ -	\$ 300	
Supplies	\$ -	0%	\$ 500	\$ (500)	-100%
Networking	\$ 64,255	20%	\$ 81,500	\$ 2,755	3%
Shipping	\$ 6,353	1%	\$ 12,000	\$ (5,647)	-47%
Site Survey	\$ 5,659	1%	\$ -	\$ 5,659	
Social	\$ 65,093	15%	\$ 48,750	\$ 16,343	34%
Food & Beverage	\$ 82,516	19%	\$ 67,000	\$ 15,516	23%
Lunches	\$ -	0%	\$ -	\$ 0	
<b>Total Session Expense</b>	<b>\$ 426,464</b>	<b>100%</b>	<b>\$ 360,225</b>	<b>\$ 66,239</b>	<b>18%</b>
<b>Net Session Surplus/(Loss)</b>	<b>\$ 14,520</b>		<b>\$ (10,725)</b>		

## 2012 T2 Other Income

Interest

\$1,446.85

## 2012 T2 Other Expenses

CPA Time (2011 reconstruction)	(\$2,047.50)
Audit for 2011	(\$6,000.00)
Shipping	(\$45.80)
Postage	(\$44.75)
Total	(\$8,138.05)

## 2012 T3 (Sep-Dec) Overview Estimate

Meeting Surplus/Loss	(\$8,195.00)
Other Income	\$1,250.00
Other Expenses	(\$3,285.41)
	-----
Net Change	(\$10,230.41)



# 2012 T3 Meeting San Antonio Income Estimate

IEEE Project 802 Meeting Budget November 2012 Plenary Session San Antonio As of 16 November 2012									
	Estimate				Budget				
Income	Fee	Net	Net Amt	%	Net	Net Amt	%	Var	Var %
Pre-registration	\$ 700	\$ -	\$ 5,600	2%	10	\$ 7,000	2%	(\$1,400)	-20%
Pre-registration (w/ith discount)	\$ 400	\$ 481	\$ 186,800	56%	450	\$ 180,000	53%	\$6,800	4%
Pre-Registration Early Cancellation	\$ 1700	\$ -	\$ -	0%		\$ -	0%		
Pre-Registration Early Cancellation (w/ith discount)	\$ 1400	\$ -2	\$ (800)	0%		\$ -	0%		
Pre-Registration Late Cancellation	\$ 600	\$ -	\$ -	0%		\$ -	0%		
Pre-Registration Late Cancellation (w/ith discount)	\$ 1300	\$ -13	\$ (3,900)	-1%		\$ -	0%		
Pre-Registration no-show	\$ -	\$ -4	\$ -	0%		\$ -	0%		
Web-registration	\$ 800	\$ 22	\$ 17,600	5%	10	\$ 9,000	2%	\$9,600	120%
Web-registration (w/ith discount)	\$ 600	\$ 307	\$ 103,600	31%	150	\$ 75,000	23%	\$28,600	38%
Web-registration Cancellation	\$ 700	\$ -	\$ -	0%		\$ -	0%		
Web-registration Cancellation (w/ith discount)	\$ 400	\$ -2	\$ (800)	0%		\$ -	0%		
Web-registration no-show	\$ -	\$ -	\$ -	0%		\$ -	0%		
Onsite-registration	\$ 900	\$ 1	\$ 900	0%	5	\$ 4,500	1%	(\$3,600)	-80%
Onsite-registration (w/ith discount)	\$ 600	\$ 37	\$ 22,200	7%	25	\$ 15,000	4%	\$7,200	48%
Student-registration	\$ 100	\$ -	\$ -	0%	0	\$ 0	0%		
University Outreach	\$ 25	\$ -	\$ -	0%	0	\$ 0	0%		
Net Registration Income	\$ 445	\$ 721	\$ 331,100	86%	650	\$ 289,500	84%	\$41,600	14%
Non-registration income									
Deadbeat collections			\$ -	0%		\$ -	0%	\$0	
Comps, Commissions & Discounts			\$ 53,000	14%		\$ 59,000	16%	(\$2,000)	-4%
Other			\$ -	0%		\$ -	0%	\$0	
<b>Total Session Income</b>			<b>\$ 384,100</b>	<b>14%</b>		<b>\$ 344,500</b>	<b>16%</b>	<b>\$39,600</b>	<b>11%</b>

# 2012 T3 Meeting San Antonio Expense Estimate

IEEE Project 802 Meeting Budget November 2012 Plenary Session San Antonio As of 16 November 2012									
	Estimate				Budget				
Expense								Var	Var %
Audio Visual	\$ 23,500	6%			\$ 23,500	6%		\$0	0%
Credit Card Discounts & Fees	\$ 16,555	4%			\$ 14,475	4%		\$2,080	14%
Equipment Expenses	\$ -	0%			\$ -	0%		\$0	
Get IEEE 802 Contribution (Net paid attendees * \$75.00)	\$ 54,075	14%			\$ 48,750	13%		\$5,325	11%
Infrastructure	\$ 2,500	1%			\$ 2,200	1%		\$300	14%
Copier	\$ -	0%			\$ -	0%		\$0	
Electrical	\$ -	0%			\$ -	0%		\$0	
Phone	\$ -	0%			\$ -	0%		\$0	
Reg Counters	\$ 2,500	1%			\$ 2,200	1%		\$300	14%
Meeting Administration	\$ 56,600	15%			\$ 62,000	16%		(\$5,500)	-9%
Misc Meeting Expenses	\$ 2,350	1%			\$ 2,350	1%		\$0	0%
Audit	\$ -	0%			\$ -	0%		\$0	
Copying	\$ 300	0%			\$ 300	0%		\$0	0%
Hotel Grants	\$ 1,200	0%			\$ 1,200	0%		\$0	0%
Insurance	\$ -	0%			\$ -	0%		\$0	
Other Keys	\$ 350	0%			\$ 350	0%		\$0	0%
Supplies	\$ 500	0%			\$ 500	0%		\$0	0%
Networking	\$ 81,000	21%			\$ 82,500	22%		(\$1,500)	-2%
Shipping	\$ 8,000	2%			\$ 9,000	2%		(\$1,000)	-11%
Site Survey	\$ 8,500	2%			\$ 8,500	2%		\$0	0%
Social	\$ 45,900	12%			\$ 41,000	11%		\$4,900	12%
Food & Beverage	\$ 83,100	22%			\$ 81,500	22%		\$1,600	2%
Lunches	\$ -	0%			\$ -	0%		\$0	
<b>Total Session Expense</b>			<b>\$ 381,980</b>	<b>100%</b>		<b>\$ 375,775</b>	<b>100%</b>	<b>\$6,205</b>	<b>2%</b>
<b>Net Session Surplus(Loss)</b>			<b>\$ 2,120</b>			<b>\$ (31,275)</b>			

## 2012 T3 Other Income Estimate

Interest	\$1,250.00
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## 2012 T3 Other Expenses Estimate

DVD-ROM production	(\$1,085.41)
P1905.1 Draft Access	(\$1,200.00)
Other	(\$1,000.00)
Total	(\$3,285.41)

## 2013 Geneva Expenses

Site Surveys	(\$16,543.79)
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## 2011 Net

2011-03 Meeting	\$15,016.52
2011-07 Meeting	(\$49,166.24)
2011-11 Meeting	(\$8,000.00)
2011 Income Other	\$2,755.07
2011 Expenses Other	(\$31,563.06)
2011 Net	(\$49,147.28)

## 2012 Net

2012-03 Meeting	(\$80,777.00)
2012-07 Meeting	\$14,520.49
2012-11 Meeting (est)	\$13,810.43
2012 Income Other (est)	\$3,954.75
2012 Expenses Other (est)	(\$18,377.38)
2012 Net (est)	(\$66,868.71)

## Reserve

2012 End USD Reserve	\$923,440.39
Petty Cash	\$2,000.00
SGD reserve (USD equivalent)	\$172,601.49
Total Reserve	\$1,098,041.88

See Slide 21 for Motion

Add “or if there is no room block” at end of motion in slide 21

Discussion of motion. Several expressed they were more comfortable with a \$100 increase.

(Slide 21 updated during discussion to the attached slide, is included in EC-12-0071-01)

## Motion

Motion: Move to change the normal meeting registration fees to:

\$800 early

\$900 regular

\$1100 late

\$150 student

\$25 University Outreach

\$300 discount for early/regular/late attendees if attendee stays at least one night in the hotel room block or if there is no room block

Move: Clint Chaplin

Second: Jon Rosdahl

Suggestion of alternate schemes for registration fees.

Similar prior motions have been passed in the past.

Motion#4	Move to change the normal meeting registration fees to:		
	\$800 early		
	\$900 regular		
	\$1100 late		
	\$150 student		
	\$25 University Outreach		
	\$300 discount for early/regular/late attendees if attendee stays at least one night in the hotel room block or if there is no room block		
Moved	Chaplin		
Second	Rosdahl		
Results	(y/n/a)	12 / 2 / 0	
Motion	Passes		

4.06	MI	P&P Approval	Gilb	10	02:01 PM
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Gilb presented EC-12-0072-01, and highlights changes to Sections 4 and 12. Of the current P&P

November 2012

ec-12-0072-01-00EC

## Motions for rules changes

802 EC Rules

James Gilb (Tensorcom)

November 2012

ec-12-0072-01-00EC

### 4. Membership (current P&P)

- Membership of the LMSC Sponsor is composed of the following voting members:
  - Chairs of Active WGs
  - Chairs of the TAGs
  - Officers as defined in Clause 3
- In addition, the LMSC Sponsor may include the following non-voting members:
  - Members Emeritus
  - Chairs of Hibernating WGs
  - Acting positions (prior to confirmation)

802 EC Rules

James Gilb (Tensorcom)

## 12 Revision of Sponsor P&P (current P&P)

- Revisions to these P&P shall be submitted to the sponsor no less than 30 day in advance of a motion (or conclusion of an electronic ballot) to approve them. Amendments in response to comments on the P&P are permitted. Insufficient time to consider complex amendments is a valid reason to vote disapprove. A motion to revise the Sponsor P&P shall require a vote of approve by at least two thirds of all members of the Sponsor.
- We have 5 officers, 9 WG chairs, 2 chairs of hibernating WGs and 2 member emeriti
  - 10 WGs, but count Gilb in officers, not as WG chair
  - 18 members, 2/3 approval is 12 affirmative votes

802 EC Rules

James Gilb (Tensorcom)

Gilb presented slides from 12-0058-04,

## Changes to OM and WG P&P November 2012 meeting

802 EC Rules

James Gilb (Tensorcom)

# Introduction

- Terms
  - P&P: IEEE 802 LMSC Policies and Procedures
  - OM: IEEE 802 LMSC Operations Manual
  - WG P&P: IEEE 802 LMSC Working Group Policies and Procedures
  - CG: IEEE 802 LMSC Chair's Guidelines

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802 EC Rules

James Gilb (Tensorcom)

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November 2012

ec-12-0058-04-00EC

## 4. Membership (current P&P)

- Membership of the LMSC Sponsor is composed of the following voting members:
  - Chairs of Active WGs
  - Chairs of the TAGs
  - Officers as defined in Clause 3
- In addition, the LMSC Sponsor may include the following non-voting members:
  - Members Emeritus
  - Chairs of Hibernating WGs
  - Acting positions (prior to confirmation)

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802 EC Rules

James Gilb (Tensorcom)



## 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 5 officers, 9 voting WG chairs
  - 802.24 chair has not been confirmed (and wouldn't count twice)
  - 14 voting members, 2/3 approval is 10 affirmative votes
- No requirement on approval of the Chair's guidelines.

802 EC Rules

James Gilb (Tensorcom)

Gilb presented IEEE\_802\_PandP\_v11.doc. Shown on following pages.  
(Comparison version provided shown in IEEE\_802\_PandP\_v11-comparison.doc)

Motion#5	The 802 EC approves the document IEEE_802_PandP_v11.doc as the IEEE 802 LMSC Policies and Procedures that will be submitted to AudCom for approval, with editorial changes allowed. (slide 4)	
Moved	Gilb	
Second	Law	
Results	(y/n/a)	14 / 0 / 0
Motion	Motion passes	

**IEEE 802 LAN/MAN Standards Committee (LMSC)  
Policies and Procedures**

**Date of Submittal: 16 November, 2012**

**Date of Acceptance: to be filled in by AudCom**

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## IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures for Standards Development

### 1.0 Introduction

In today's market, standards development plays a critical role in product development and market share. In the IEEE, the responsibility for how a standard originates and evolves is managed by a Sponsor. It is essential in the management of a standard's development to avoid any actions by the Sponsor or the participants that result in a violation of procedures.

Adherence to these Policies and Procedures is an essential asset in determining the applicability of IEEE's indemnification policy.

These Policies and Procedures outline the orderly transaction of standards activities of IEEE 802 LMSC. Herein after referred to as "the Sponsor" or appropriate related form. For the development of standards, openness and due process shall be applied, which means that any person with a direct and material interest who meets the requirements of these Policies and Procedures has a right to participate by:

- a) Expressing a position and its basis
- b) Having that position considered, and
- c) Appealing if adversely affected

Due process allows for equity and fair play. In addition, due process requires openness and balance (i.e., the standards development process should strive to have a balance of interests and not to be dominated by any single interest category). However, for the IEEE Standards Sponsor ballot, there shall be a balance of interests without dominance by any single interest category.

Participants engaged in the development of standards must comply with applicable federal, state, and international laws. In addition, for standards matters, the latest versions of several documents take precedence over this document, in the following order:

New York State Not-for-Profit Corporation Law  
IEEE Certificate of Incorporation  
IEEE Constitution  
IEEE Bylaws  
IEEE Policies  
IEEE Board of Directors Resolutions  
IEEE Standards Association Operations Manual  
IEEE-SA Board of Governors Resolutions  
IEEE-SA Standards Board Bylaws  
IEEE-SA Standards Board Operations Manual



IEEE-SA Standards Board Resolutions

## Policies and Procedures of this Sponsor

Anything the Sponsor creates is hierarchically inferior to the documents and resolutions that are listed above its Policies and Procedures. The Policies and Procedures of the Sponsor are hierarchically superior to other documents of the Sponsor. *Robert's Rules of Order Newly Revised (RONR)* is the recommended guide on questions of parliamentary procedure not addressed in these procedures.

**1.1 IEEE Sponsor scope**

The scope of the Sponsor is to develop and maintain networking standards, recommended practices and guides for local, metropolitan, and other area networks, using an open and accredited process, and to advocate them on a global basis. Its technical scope is intended to be flexible and is ultimately determined by the sum of its approved PARs.

**1.2 Organization of the Sponsor**

The Sponsor shall consist of officers (see Clause 3), and other members.

**2.0 Responsibilities of the Sponsor**

The Sponsor shall be responsible for at least the following:

- a) Developing proposed IEEE standards and ensuring that they are within the scope of the Sponsor.
- b) Initiating and overseeing ballots of proposed IEEE standards within its scope, including:
  - 1) Approving Project Authorization Requests (PARs) from a subgroup or the Sponsor
  - 2) Submitting a proposed PAR to the IEEE-SA Standards Board for consideration. Following approval of the PAR, the Sponsor shall submit necessary requests for extension, modification, or withdrawal of the PAR as required by the IEEE-SA Operations Manual
  - 3) Submitting draft standards from a subgroup or the Sponsor to the IEEE-SA for Sponsor ballot.
- c) Maintaining the standards developed by the Sponsor in accordance with the *IEEE-SA Standards Board Operations Manual*
- d) Acting on other matters requiring Sponsor effort as provided in these procedures
- e) Cooperating with other appropriate standards development organizations
- f) Protecting against actions taken in the name of the Sponsor without proper Sponsor authorization
- g) Limiting distribution of the membership roster to appropriate parties
- h) Communicating with the IEEE-SA Standards Board on specific Sponsor activities as needed
- i) Handling appeals as described in Clause 9



## 2.1 Sponsorship

The Sponsor is responsible for the development and coordination of standards project(s) including their maintenance after their approval as standard(s) by the IEEE-SA Standards Board. Specifically, the Sponsor is responsible for those IEEE-SA Standards Board approved project(s) for which Sponsor has been identified or assigned as either the sole sponsor or a joint sponsor. The development and maintenance of standards shall be accomplished as defined within the clauses of these Policies and Procedures.

## 2.2 Joint-Sponsor responsibility/accountability

The Sponsor shall complete a joint sponsorship agreement for jointly sponsored projects.

## 3.0 Officers

There shall be a Sponsor Chair, Vice Chair(s), a Treasurer, a Recording Secretary and an Executive Secretary. A person may simultaneously hold the positions of Treasurer and another office, other than Sponsor Chair.

The Sponsor Chair shall be a member of any grade of the IEEE and a member of the IEEE-SA. (IEEE-SASB Bylaw 5.2.1) The officers shall organize the Sponsor; oversee the Sponsor's compliance with these Policies and Procedures; and submit proposed documents approved by the Sponsor (with supporting documentation) for appropriate review and approval by the IEEE-SA Standards Board. Officers shall read the training material available through [IEEE Standards Development Online](#).

## 3.1 Election or appointment of Sponsor officers

All appointed and elected positions become effective at the end of the plenary session where the appointment/election occurs. A plenary session is as defined in Plenary Sessions subclause of the IEEE 802 LAN/MAN Standards Committee Operations Manual. Prior to the end of that plenary session, persons that have been appointed/elected during the session are considered 'Acting', and do not vote. Persons who are succeeding someone that currently holds the position do not acquire any Sponsor rights until the close of the plenary session.

The term for all officers of the Sponsor ends at close of the first plenary session of each even numbered year. Unless otherwise restricted by these P&P. Sponsor officers may be confirmed for a subsequent term if reappointed or re-elected to the position. Officers appointed and affirmed maintain their appointments until the next appointment opportunity unless they resign, are removed for cause, or are unable to serve for another reason.

### *Sponsor Chair*

The Sponsor Chair is elected by the members of the Sponsor and confirmed by the Standards Activities Board.

### *Vice Chair(s)*

The Sponsor Chair appoints a (1<sup>st</sup>) Vice Chair and may appoint a 2<sup>nd</sup> Vice Chair. Vice Chairs are confirmed by the Sponsor.

*Executive Secretary, Recording Secretary, and Treasurer*

These positions are appointed by the Sponsor Chair and confirmed by the Sponsor.

### 3.2 Temporary appointments to vacancies

If an office other than the Sponsor Chair becomes vacant for any reason (such as resignation or removal), a temporary appointment shall be made by the Sponsor Chair. An appointment or election for the vacated office shall be made in accordance with requirements in Clause 3.0 and Clause 3.1.

### 3.3 Removal of officers

An officer may be removed by a two-thirds approval vote of the Voting Members of the Sponsor. Grounds for removal shall be included in any motion to remove an officer. The officer suggested for removal shall be given an opportunity to make a rebuttal prior to the vote on the motion for removal.

### 3.4 Responsibilities of officers

#### 3.4.1 Sponsor Chair

The responsibilities of the Sponsor Chair shall include

- a) Leading the activity according to all of the relevant policies and procedures
- b) Forming study groups, as necessary
- c) Being objective
- d) Entertaining motions, but not making motions
- e) Not biasing discussions
- f) Delegating necessary functions
- g) Ensuring that all parties have the opportunity to express their views
- h) Setting goals and deadlines and adhering to them
- i) Being knowledgeable in IEEE standards processes and parliamentary procedures and ensuring that the processes and procedures are followed
- j) Seeking consensus of the Sponsor as a means of resolving issues
- k) Prioritizing work to best serve the Sponsor and its goals
- l) Complying with the Sponsor Chair's responsibility with respect to the IEEE-SA Intellectual Property Policies, including but not limited to the IEEE-SA Patent Policy (see <http://standards.ieee.org/board/pat/index.html>) and IEEE-SA Copyright Policy (see IEEE-SA Standards Board Bylaws 7, <http://standards.ieee.org/guides/bylaws/sect6-7.html#7> )
- m) Submitting approved Sponsor P&P to the IEEE-SA Standards Board Audit Committee (AudCom—see <http://standards.ieee.org/board/aud/index.html> )



- n) Ensuring that each Working Group (WG) has a set of P&P approved by the Sponsor. The Sponsor Chair will provide the WG P&Ps to AudCom upon request.
- o) Submitting appropriate Annual Financial Reports (IEEE SA Form L50-S) to the Business Manager, Business Administration, or assignee, for the operation of the Sponsor and all of its subgroups.
- p) Chairing Sponsor and LMSC plenary meetings
- q) Representing the LMSC at SAB, IEEE-SA Standard Board, and other organizations as required
- r) Placing motions for votes by Sponsor members
- s) Supervise the operation of subgroups of the Sponsor
- t) Prioritizing objectives to best serve the Sponsor and its subgroups
- u) Taking other administrative actions as required for proper operation of the committee
- v) Ensuring that Sponsor members who are not Chairs of active WGs have specific areas of interest to cover in order to encourage a wider view than that specifically covered by the Chairs of active WGs

### 3.4.2 Vice-Chair(s)

The Vice Chair(s) are to assist the Sponsor Chair in the responsibilities delegated to them. The 1<sup>st</sup> Vice Chair shall carry out the Sponsor Chair's duties if the Sponsor Chair is temporarily unable to do so or chooses to recuse him- or herself (e.g., to speak for or against a motion).

### 3.4.3 Recording Secretary

The responsibilities of the Recording Secretary include:

- a) Distributing the agenda at least 15 days<sup>1</sup> before the meeting—notification of the potential for action shall be included on any distributed agendas for meetings
- b) Recording minutes of each meeting and publishing them within 30 calendar days of the end of the meeting
- c) Creating and maintaining the participant roster and submitting it to the IEEE Standards Association annually
- d) Being responsible for the management and distribution of Sponsor documentation
- e) Maintaining lists of unresolved issues, action items, and assignments
- f) Recording attendance of all attendees
- g) Maintaining a current list of the names of the Voting Members and distributing it to the members upon request
- h) Forwarding all changes to the roster of the Voting Members to the Sponsor Chair

### 3.4.4 Treasurer

Treasurer shall:

- a) Maintain a budget

<sup>1</sup> Throughout this document, unless otherwise specified, the term "day" refers to a 24 hour period.

- b) Control all funds, including any into and out of the Committee's bank account
- c) Follow IEEE policies concerning standards meetings and finances
- d) Adhere to the IEEE Finance Operations Manual

### 3.4.3 Executive Secretary

The responsibilities of the Executive Secretary include:

- a) Scheduling meetings in coordination with the Sponsor Chair and distributing a meeting notice at least 30 days before the meeting
- b) Oversee all activities related to Sponsor sponsored meeting facilities and services
- c) With the Treasurer, ensure that Sponsor sponsored sessions are compliant with IEEE financial policies
- d) Present summaries of venue options to the Sponsor, select venues with approval of the Sponsor, and sign approved proposals on behalf of 802
- e) Coordinate with conference service providers and Sponsor Chair on major decisions
- f) Oversee maintenance of Sponsor registration database
- g) Carry out the duties of the Treasurer if the Treasurer is unavailable.

## 4.0 Membership

Membership of the Sponsor is composed of the following Voting Members:

*Chairs of Active WGs*  
*Chairs of the TAGs*  
*Officers as defined in Clause 3.0*

In addition, the Sponsor may include the following Non-Voting Members:

*Members Emeritus*  
*Chairs of Hibernating WGs*  
*Chairs of ECSGs*  
*Acting positions (prior to confirmation)*

All members of the Sponsor shall be members or affiliates of the IEEE-SA and either the IEEE or the IEEE Computer Society.

Appointment to each non-voting membership position is subject to confirmation by the Sponsor. The term for each of these positions ends at close of the first plenary session of each even numbered year.

### 4.1 Voting membership

Members of the Sponsor obtain voting rights at the end of the plenary session where they are first confirmed or elected by the Sponsor. If election/appointment and confirmation by the Sponsor occur outside a plenary session, that member receives voting rights immediately upon confirmation.



There are no specific attendance requirements to obtain or maintain voting membership on the Sponsor. However a pattern of not attending meetings may be considered dereliction of duty and result in removal for cause.

Any person to be confirmed or elected by the Sponsor shall, prior to confirmation or election by the Sponsor, file with the Recording Secretary a letter of endorsement from their supporting entity. This letter is to document several key factors relative to their participation on the Sponsor and is to be signed by both the Sponsor member and an individual who has management responsibility for the Sponsor member. This letter shall contain at least the following:

- a) Statement of qualification based on technical expertise to fulfill the assignment
- b) Statement of support for providing necessary resources (e.g., time, travel expenses to meetings), and
- c) Recognition that the individual is expected to act in accordance with the conditions stated in Voting Guidance subclause of the IEEE 802 LAN/MAN Standards Committee Operations Manual "as both a professional and as an individual expert."

If an election or appointment is not confirmed by the Sponsor, the person last holding the position will continue to serve until confirmation of an election or appointment is achieved. Should that person be unable or unwilling to serve, the position may be left vacant, or filled by temporary appointment by the Sponsor Chair.

#### 4.1.1 Application

Not applicable

#### 4.2 Review of membership

The Sponsor Chair shall review the voting membership list at least once annually. Voting Members are expected to fulfill the obligations of active participation as defined in Clause 4.1. When a Voting Member is found in habitual default of these obligations, the Sponsor Chair shall consider the matter for appropriate action which may include termination of membership.

#### 4.3 Membership roster

A current and accurate Sponsor roster shall be maintained. Due to privacy concerns, the roster shall not be distributed except to the IEEE-SA Board of Governors, IEEE-SA Standards Board, and IEEE-SA staff unless all Sponsor members have submitted their approval for such distribution. The roster shall include the following:

- a) Title of the Sponsor and its designation
- b) Scope of the Sponsor
- c) Officers: Sponsor Chair, Vice Chair(s), Recording Secretary, Executive Secretary, Treasurer
- d) Members: for all, name, e-mail address, affiliation and membership status.

#### 4.4 Membership public list

A current and accurate Sponsor membership list shall be maintained. The membership list may be posted on the Sponsor web site and may be publically distributed. The membership list shall be limited to the following:

- a) Title of the Committee and its designation
- b) Scope of the Committee
- c) Officers: Sponsor Chair, Vice Chairs, Recording Secretary, Executive Secretary, Treasurer
- d) Members: (for all) -- name

#### 5.0 Subgroups, Study Groups and WGs created by the Sponsor

##### 5.1 Administrative subgroups

The LMSC organization consists of the Executive Committee (Sponsor), WGs, Technical Advisory Groups (TAGs), and Executive Committee Study Groups (ECSGs).

##### 5.2 WGs – Individual Method

Standards WGs are responsible for the definitive content of one or more documents and for responding to views and objections thereon. Such WGs shall maintain a membership roster and shall comply with the provisions for preparing standards.

The Sponsor shall ensure that all WGs adopt procedures consistent with the baseline Operating Procedures for Standards Working Groups – Individual Method and review amendments to these procedures to ensure that they are not in conflict with the IEEE-SA Standards Board Operations Manual.

Prior to the Sponsor forwarding a PAR to the IEEE-SA Standards Board for approval, the Sponsor determines, with due consideration of advice from the Study Group, whether the PAR, should it be approved, is to be assigned to an existing WG or a new WG. If the IEEE-SA Standards Board approves the PAR, and it is a PAR that the Sponsor has determined should be assigned to a new WG, that WG immediately comes into existence.

The IEEE 802 LMSC Working Group Policies and Procedures shall be used as the Policies and Procedures for 802 WGs and 802 TAGs. The requirements for the election and confirmation of WG and TAG officers are stated in the 802 LMSC Working Group Policies and Procedures.

If a WG has no active PARs, and is not actively developing a new PAR, then it should be considered to either be placed in hibernation (if it has developed standards or recommended practices in the past that are still current), or disbanded (if it has no current standards or recommended practices)

##### 5.2.1 Hibernation of a WG



A WG may be hibernated at the request of the WG Chair and the approval of the Sponsor. The hibernating WG may be returned to active status by the Sponsor in order for the WG to develop a new PAR.

Hibernating WG Chairs become Non-Voting Members of the Sponsor after their WG enters hibernation. The Sponsor Chair may appoint new non-voting hibernating WG Chairs to replace vacancies as soon as practical, subject to confirmation by the Sponsor at the next plenary meeting. A non-voting hibernating WG Chair of the Sponsor shall be recognized as a full member of the Sponsor, having all rights and meeting privileges except the right of voting on Sponsor motions.

### 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.

If the Sponsor electronic ballot on disbanding the group passes, the WG is disbanded. If the ballot fails, then the Sponsor Chair shall determine a future date when the disbanding of the group may be re-balloted.

### 5.3 WGs – Entity Method

If a WG being formed has entity-based membership, the Sponsor shall ensure that the entity standards WG adopts procedures consistent with the IEEE-SA Baseline Policies and Procedures – IEEE Standard WGs – Entity Working Groups. In addition, the Sponsor reviews amendments to the Policies and Procedures for Corporate Standards Working Groups to ensure that they are not in conflict with IEEE policies and procedures and New York State Not-for-Profit Corporation Law.

### 5.4 Standards study groups

When a Sponsor is presented with a proposal concerning a standards development project, the Sponsor may form a Standards Study Group to examine the proposal to determine if there is a need for a standard to be developed. If the proposal merits formation of a project, the Study Group will draft a PAR for consideration by the Sponsor.

Groups shall refer to the approved Study Group guidelines on how a Standards Study Group shall conduct business and the criteria it shall apply to consideration of a proposal. Guidelines located at: <http://standards.ieee.org/develop/corpchan/studygrp.pdf>

Two types of Study Groups are specified:

- a) An Executive Committee Study Group (ECSG) is initiated by vote of the Sponsor, and the ECSG Chair is appointed by the Sponsor Chair and is confirmed by the Sponsor. The ECSG Chair has the same responsibilities as a WG Chair but does not have Sponsor voting rights.

- b) A Working Group Study Group (WGSg) is initiated by vote of the WG and approved by the EC. The WGSg Chair is appointed by the WG Chair and approved by the WG. WGSgs may also be formed by TAGs.

The Study Group shall have a defined task with specific output and a specific time frame established within which it is allowed to study the subject. It is expected that the work effort to develop a PAR will originate in an ECSG or WGSg. A Study Group shall report its recommendations, shall have a limited lifetime, and is chartered plenary session-to-plenary session. A study group is expected to submit a PAR to the EC for consideration by the 2nd plenary session after its initiation. After the Study Group recommendations have been accepted by the parent body, the Study Group will be disbanded no later than the end of the next plenary session. A Study Group is disbanded upon approval of the PAR by the IEEE-SA Standards Board.

### 5.5 Technical Advisory Groups (TAGs)

The function of a TAG is to provide assistance to WG and/or the Sponsor. The TAGs operate under the same rules as the WG, with the following exceptions:

- a) A TAG shall not write standards, recommended practices or guides, but may write documents on specialty matters within the purview of the TAG.
- b) A TAG is established by the Sponsor at the request of one or more WGs, or at the discretion of the Sponsor.
- c) The primary responsibility of a TAG is to provide assistance within its topical area as specifically requested by one or more of the WGs and/or the Sponsor.
- d) A document can only be represented as the position of a TAG if it has attained approval by a vote of the TAG. Such votes are considered to be technical votes, and require approval by 75% or more to pass.
- e) Between plenary and interim meetings, the TAG Chair is empowered to schedule teleconference meetings to allow the TAG to conduct business as required, provided that the date and time of the teleconference and agenda are published on the TAG website and e-mail reflector at least 5 days before the meeting.
- f) Votes on TAG documents may be conducted verbally during teleconference meetings if a majority of the TAG members are present.
- g) Votes on TAG documents may be conducted via electronic balloting. The minimum ballot period shall be 5 days.
- h) A TAG shall maintain an area on the LMSC web site to post the minutes, conference announcements, submissions, drafts, and output documents.
- i) A TAG shall maintain an e-mail distribution list of its members for making the announcements of teleconferences and availability of important information on the TAG's web site pages.

### 5.6 Other subgroups

The formation and disbandment of subgroups other than administrative subgroups (e.g., WGs, TAGs, technical subcommittees, and writing groups) require approval by a majority vote of the Sponsor. The Chair of a subgroup shall be appointed by the Sponsor Chair or decided by



nomination and election. The scope and duties delegated to the subgroup shall be approved at the time the subgroup is formed, and subsequent changes in scope or duties shall also require approval by a majority vote of the Sponsor. The scope, duties, and membership of all subgroups shall be reviewed annually by the Sponsor. The charge to the subgroup shall clearly state which of the following complementary activities is appropriate:

- 1) The subgroup is responsible for the definitive content of one or more documents and for responding to views and objections thereon. Such subgroups shall maintain a membership roster and shall comply with the provisions for preparing standard(s).
- 2) The subgroup is responsible for assisting the Sponsor (e.g., drafting all or a portion of a document, drafting responses to comments, drafting public statements on standards, or other purely advisory functions).

## 6.0 Meetings

Sponsor meetings may be conducted either exclusively in-person or in-person with one or more participants contributing via electronic means, or exclusively via electronic means. Sponsor meetings shall be held, as decided by the Sponsor Chair, or by petition of 5 or more voting members, to conduct business such as making assignments, receiving reports of work, progressing draft standards, resolving differences among subgroups, and considering views and objections from any source. A meeting notice shall be distributed to all members at least 30 days in advance of the meeting. A meeting agenda shall be distributed to all members at least 14 days in advance of the meeting. Meetings of subgroups may be held as decided upon by the members or Chair of the subgroup. Notification of the potential for action shall be included on any distributed agendas for meetings.

Note that all IEEE Standards development meetings are open to anyone who has a material interest and wishes to attend, however some meetings may occur in Executive Session (see Clause 6.3).

## 6.1 Quorum

A quorum shall be identified before the initiation of Sponsor business at a meeting, but if a quorum is not present, actions may be taken subject to confirmation by letter or electronic ballot, as detailed in Clause 7.4. When the voting membership is less than 50 voting members, a quorum shall be defined as a majority of the current total voting membership. When the voting membership is 50 or more voting members, a quorum shall be defined as 50% of the current total voting membership or 26, whichever is greater. Voting members who recuse themselves shall not be counted in the equation to determine whether a quorum exists.

## 6.2 Conduct

Meeting attendees shall demonstrate respect and courtesy toward each other and shall allow each participant a fair and equal opportunity to contribute to the meeting, in accordance with the IEEE Code of Ethics.

All WG participants shall act in accordance with all IEEE Standards policies and procedures.

### 6.3 Executive session

Meetings to discuss personnel or sensitive business matters (e.g., the negotiation of contracts), or for other appropriate non-public matters (e.g., the receipt of legal advice), may be conducted in Executive Session.

### 6.4 Meeting fees

The Sponsor and its subgroups may charge a meeting fee to cover the expenses of the Sponsor. The fee shall not be used to restrict participation by any interested parties.

### 6.5 Minutes

The minutes shall record the essentials, including the following:

- a) Name of group
- b) Date and location of meeting
- c) Officer presiding, including the name of the secretary who wrote the minutes
- d) Attendance, including affiliation
- e) Call to order, Sponsor Chair's remarks
- f) Approval of minutes of previous meeting
- g) Approval of agenda
- h) Technical topics
  - 1) Brief summary of discussions and conclusions
  - 2) Motions, including the names of mover and seconder.
- i) Items reported out of executive session
- j) Next meeting--date and location

Copies of handouts and subcommittee reports may be included in the minutes or made available as separate items.

### 7.0 Vote

#### 7.1 Approval of an action

Approval of an action requires approval by a majority (or two-thirds) vote as specified below in 7.1.1 (majority), and 7.1.2 (two-thirds). The "majority, two-thirds vote" is defined as one of the following:

- a) At a meeting (including teleconferences) where quorum has been established, a vote carried by majority (or two-thirds) approval of the votes cast (i.e., Approve or Do Not Approve votes, excluding abstentions) by the Voting Members in attendance.
- b) By electronic means (including email), a vote carried by majority (or two-thirds) of the votes cast (i.e., Approve or Do Not Approve votes, excluding abstentions), provided a majority of all the Voting Members of the Sponsor responded.



### 7.1.1 Actions requiring approval by a majority vote

The following actions require approval by a majority vote:

- a) Formation or modification of a subgroup, including its procedures, scope, and duties
- b) Disbandment of subgroups
- c) Approval of minutes
- d) Authorization of a Sponsor ballot
- e) Approval to jointly sponsor a project (PAR). See Clause 2.1.1
- f) Approval of public statements
- g) Approval to forward PARs to IEEE-SA NesCom
- h) Approval to forward draft standards to IEEE-SA RevCom
- i) Other motions brought to the floor by members (when deemed in order by the Sponsor Chair)

### 7.1.2 Actions requiring approval by a two-thirds vote

The following actions require approval by a two-thirds vote:

- a) Adoption of new or revised Sponsor procedures
- b) Approval of change of the Sponsor scope\*
- c) Approval of termination of the Sponsor\*
- d) Removal of an officer except the Sponsor Chair

\* Following Sponsor approval, items b and c require notice to the IEEE-SA Standards Board.

### 7.2 Approval of moving a draft standard to Sponsor ballot

Approval for moving a draft standard to Sponsor ballot, or approval of any substantive change in the scope of a standard proposed by a subgroup, shall be referred to the Sponsor for approval. The Sponsor may delegate approval authority and form a subgroup for this purpose. Approval to move a standard to Sponsor ballot from such a subgroup requires a majority vote. This vote shall be limited to procedural issues and PAR alignment only.

### 7.3 Proxy Voting

Not Applicable

### 7.4 Voting between meetings

At the discretion of the Sponsor Chair, the Sponsor shall be allowed to conduct voting between meetings by the use of a letter or electronic ballot. If such actions are to be taken, they shall follow the rules of IEEE Bylaw I-300.4(4).

### 8.0 Communications

All correspondence on behalf of the Sponsor shall contain identification of the Sponsor as the source of the correspondence.

### **8.1 Formal internal communication**

If correspondence between subgroups involves issues or decisions (that is, non-routine matters) affecting other subgroups, copies shall be sent to all affected subgroup chairs, subgroup secretaries and the Sponsor officers.

### **8.2 External communication**

Inquiries relating to the Sponsor shall be directed to the Sponsor Chair, and members shall so inform individuals who raise such questions. All replies to inquiries shall be made through the Sponsor Chair.

### **8.3 Public statements for standards**

All Sponsor public communications shall comply with the policies of the IEEE-SA Standards Board Operations Manual.

Individuals making public statements that have not been approved by the Sponsor shall state that they are speaking as individuals.

#### **8.3.1 Sponsor public statements**

Sponsor public statements shall not be released without prior approval of the Sponsor as per Clause 7.1.1 of these procedures.

Sponsor public statements shall be identified in the first paragraph of the public statement as being specifically the position of the Sponsor. These statements shall be issued by the Sponsor Chair. Such statements shall not bear the IEEE, or the IEEE-SA logos.

#### **8.3.2 Subgroup public statements**

Subgroup public statements shall not be released without prior approval of the subgroup. Such public statements also require approval of the Sponsor.

Subgroup public statements shall be identified in the first paragraph of the public statement as being specifically the position of the subgroup. These statements shall be issued by the subgroup Chair and shall include the Sponsor Chair in the distribution. Such statements shall not bear the IEEE, the IEEE-SA, or the Sponsor logos.

#### **8.3.3 Public statements to be issued by other entities**

If the Sponsor wishes to go to another IEEE entity (as defined in Section 15 of the IEEE Policy and Procedures) to have that entity offer a public statement on a standards matter, they shall do so after agreement from the IEEE-SA Standards Board and after informing the IEEE-SA Board of Governors. Upon Sponsor approval, proposed public statements that need to be issued by other IEEE entities shall be forwarded to the IEEE-SA Standards Board Secretary for further action.



#### 8.4 Informal communications

Informal communications shall not imply that they are a formal position of the IEEE, the IEEE-SA, or the Sponsor.

#### 8.5 Standards publicity

The Sponsor is encouraged to prepare press releases and other forms of publicity to promote their activities. Please see Clause 5.1.4 of the IEEE-SA Standards Board Operations Manual for further instructions.

#### 9.0 Appeals

The Sponsor recognizes the right of appeal on procedural grounds. Technical appeals are referred back to the WG. Every effort shall be made to ensure that impartial handling of complaints regarding any action or inaction on the part of the Sponsor is performed in an identifiable manner.

The Sponsor recognizes the right of appeal on procedural grounds. Every effort should be made to ensure that impartial handling of complaints regarding any action or inaction on the part of the Sponsor is performed in an identifiable manner. The appeals process shall be substantially similar to the appeals processes of the IEEE-SA Standards Board. Appropriate attempts should be made within Sponsor subgroups before an appeal is taken to the Sponsor for resolution.

A significant attempt should be made to resolve concerns informally, since it is recognized that a formal appeals process has a tendency to negatively, and sometimes permanently, affect the goodwill and cooperative relationships between and among persons. If the informal attempts to resolve a concern are unsuccessful and a formal complaint is filed, the following formal procedure shall be invoked.

##### 9.1 Appeals pool

The appeals pool consists of:

- a) Current members in good standing of the Sponsor who have attended both the opening and closing Sponsor meetings at two of the last four plenary sessions.
- b) Former members of the Sponsor who are WG members in good standing of an active WG having qualified for member status through attendance.
- c) Current WG Vice Chairs confirmed by the Sponsor who are WG members in good standing of an active WG having qualified for member status through attendance.

##### 9.2 Appeal brief

The appellant shall file a written appeal brief with the Recording Secretary within 30 days after the date of notification/occurrence of an action or at any time with respect to inaction. The appeal brief shall state the nature of the objection(s) including any resulting adverse effects, the clause(s) of the procedures or the standard(s) that are at issue, actions or inaction that are at issue, and the specific remedial action(s) that would satisfy the appellant's concerns. Previous

efforts to resolve the objection(s) and the outcome of each shall be noted. The appellant shall include complete documentation of all claims in the appeal brief. Within 20 days of receipt of the appeal brief, the Recording Secretary shall send the appellant a written acknowledgment of receipt of the appeal brief, shall send the appellee (the Chair of the WG at issue or the Sponsor Chair) a copy of the appeal brief and acknowledgment, and shall send the parties a written notice of the time and location of the hearing ("hearing notice") with the appeals panel. The hearing with the appeals panel shall be scheduled at the location set for, and during the period of, the first Sponsor plenary session (nominally Wednesday evenings) that is at least 60 days after mailing of the hearing notice by the Recording Secretary.

### 9.3 Reply brief

Within 45 days after receipt of the hearing notice, the appellee should send the appellant and Recording Secretary a written reply brief, specifically addressing each allegation of fact in the appeal brief to the extent of the appellee's knowledge. The appellee shall include complete documentation supporting all statements contained in the reply brief.

### 9.4 Appeals panel

The Sponsor Chair shall appoint from the appeals pool an appeals panel consisting of a chair and two other members of the panel who have not been directly involved in the matter in dispute, and who will not be materially or directly affected by any decision made or to be made in the process of resolving the dispute. At least two members shall be acceptable to the appellant and at least two shall be acceptable to the appellee. If the parties to the appeal cannot agree on an appeals panel within a reasonable amount of time, the whole matter shall be referred to the full Sponsor for consideration.

### 9.5 Conduct of the hearing

The hearing shall be open except under the most exceptional circumstances and at the discretion of the Sponsor Chair. The appellant has the burden of demonstrating adverse effects, improper actions or inaction, and the efficacy of the requested remedial action. The appellee has the burden of demonstrating that the committee took all actions relative to the appeal in compliance with its procedures and that the requested remedial action would be ineffective or detrimental. Each party may adduce other pertinent arguments, and members of the appeals panel may address questions to individuals before the panel. The appeals panel shall only consider documentation included in the appeal brief and reply brief, unless

- a) Significant new evidence has come to light; and
- b) Such evidence reasonably was not available to the appellant or appellee, as appropriate, at the time of filing; and
- c) Such evidence was provided by the appellant or appellee, as appropriate, to the other parties as soon as it became available.

This information shall be provided at least two weeks before the date of the appeals panel hearing.



The rules contained in Robert's Rules of Order Newly Revised (latest edition) shall apply to questions of parliamentary procedure for the hearing not covered herein.

#### **9.6 Appeals panel decision**

The appeals panel shall render its decision in writing within 30 days of the hearing, stating findings of fact and conclusions, with reasons there for, based on a preponderance of the evidence. Consideration may be given to the following positions, among others, in formulating the decision:

- a) Finding for the appellant, remanding the action to the appellee, with a specific statement of the issues and facts in regard to which fair and equitable action was not taken;
- b) Finding against the appellant, with a specific statement of the facts that demonstrate fair and equitable treatment of the appellant and the appellant's objections;
- c) Finding that new, substantive evidence has been introduced, and remanding the entire action to the appropriate group for reconsideration.

#### **9.7 Request for re-hearing**

The decision of the appeals panel shall become final 30 days after it is issued, unless one of the parties files a written notice of request for re-hearing prior to that date with the Recording Secretary, in which case the decision of the appeals panel shall be stayed pending review by the Sponsor at its next meeting. At that time, the Sponsor shall decide

- a) To adopt the report of the appeals panel, and thereby deny the request for re-hearing; or
- b) To direct the appeals panel to conduct a re-hearing.

Further complaints if a re-hearing is denied shall be referred to the Computer Society SAB.

#### **9.8 Further Appeals**

Appeals and complaints concerning Sponsor decisions shall be referred to the Computer Society SAB.

#### **10.0 Revision of Sponsor P&P**

Revisions to these P&P shall be submitted to the Sponsor no less than 30 days in advance of a motion (or conclusion of an electronic ballot) to approve them. Amendments in response to comments on the P&P are permitted. Insufficient time to consider complex amendments is a valid reason to vote disapprove. A motion to revise the Sponsor P&P shall require a vote of approve by at least two thirds of all voting members of the Sponsor.

4.07	MI	OM, 5C, WG P&P, Chair's Guidelines Approval	Gilb	15	02:11 PM
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Gilb presented EC-12-0072-01, Slide #5

November 2012

ec-12-0072-01-00EC

## 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 5 officers, 9 voting WG chairs
  - 802.24 chair has not been confirmed (and wouldn't count twice)
  - 14 voting members, 2/3 approval is 10 affirmative votes
- No requirement on approval of the Chair's guidelines.

802 EC Rules

James Gilb (Tensorcom)

Gilb Presented 12-0058-04, slide 5, 6, 7, 8, 9, 10, 11



## Change to OM, WG P&P

- Delete “Project” from the titles of the OM and WG P&P.
- Add to OM and WG P&P, Clause 1
  - “Unless otherwise stated, the term “WG” indicates both IEEE 802 LMSC Working Groups (WGs) as well as IEEE 802 LMSC Technical Advisory Groups (TAGs).”
  - This is in the notes, but not formally part of the OM or WG P&P (implied in the P&P that requires TAGs to use the WG P&P).

802 EC Rules

James Gilb (Tensorcom)

## Other OM changes

- OM 4.
  - Add “All IEEE 802 WGs shall use the individual method, as defined in the IEEE 802 LMSC Policies and Procedures.”
- OM 4.1:
  - Delete “Members of the Sponsor ... Standards Development Online”
  - Already in P&P
- OM 4.1.2.1
  - Delete subclause 4.1.2.1

802 EC Rules

James Gilb (Tensorcom)

## OM: Meeting Manager

- Current OM does not state how Meeting Manager is appointed, hired or approved.
  - Change OM 5.1.3 title to be “Meeting Manager”
  - Add paragraph “The Meeting Manager role may be taken by volunteer or may be contracted out. In the case of a volunteer, the Sponsor Chair appoints the Meeting Manager. In either case, the selection of the meeting manager is subject to approval by the Sponsor.”

802 EC Rules

James Gilb (Tensorcom)

## OM changes (cont.)

- OM 4.2.1: No longer have interpretations, delete from second paragraph, keeping only inquiries.
- OM 8:
  - Delete “Informal communications ... Sponsor subgroup” as this is already covered in P&P 8.4.
  - Delete “Proposed communications ... upon approval by the Sponsor.” as this is already covered in P&P 8.3.
- OM 8.1.2
  - Delete “Sponsor members receiving ... the relevant Sponsor subgroup Chair.” as this is already in OM 8.

802 EC Rules

James Gilb (Tensorcom)

## OM changes (cont. more)

- OM 9: Delete entire Clause, it is covered by P&P 8.5 and OM 4.1.1 item f).
- OM 12: Change to read
  - “All IEEE 802 LMSC standards will be distributed on an annual basis to registered attendees.”

## Add to OM 4.1.3 meetings

- “The Sponsor meets in-person during plenary sessions. At the discretion of the Chair, between plenary sessions, meetings via electronic means may be scheduled.”

## Other WG P&P changes

- WG P&P 14.1
  - Change paragraph i) as shown:
  - “Signature authority for any WG financial account is restricted to those IEEE, IEEE-SA, and Computer Society officers and/or staff that are required to have signature authority by IEEE, IEEE-SA, and Computer Society regulations; to IEEE 802 LMSC officers and to the officers of the WG owning the account, with the sole exception that, at most, two other individuals may be granted signature authority for the WG bank account for the sole purpose of assisting the WG in conducting its financial operations, provided that each such individual has provided agreements, indemnity, and/or bonding satisfactory to the IEEE. The granting of signature authority to any individual other than the [WG Chair](#), WG Treasurer, [Sponsor Chair](#), [Sponsor Treasurer](#), and those required by IEEE, IEEE-SA, Computer Society, or IEEE 802 LMSC regulations shall be by motion that is approved by the WG.”

802 EC Rules

James Gilb (Tensorcom)

Slide for motion from 12-0072-01 shown. Modification to revision number made for actual motion.

November 2012

ec-12-0072-01-00EC

## OM and WG P&P motion

- This motion is proposed using the process for the approval of the OM and WG P&P
- Moved: The 802 EC approves the changes in ec-12-0058-03 to the IEEE 802 LMSC Operations Manual and IEEE 802 LMSC Working Group Policies and Procedures.
- Moved by James Gilb
- Second by

802 EC Rules

James Gilb (Tensorcom)

Motion#6	The 802 EC approves the changes in ec-12-0058-04 to the IEEE 802LMSC Operations Manual and IEEE 802 LMSC Operations Manual and IEEE 802 LMSC Working Group Policies and Procedures.
Moved	Gilb
Second	Rosdahl

Gilb presented EC-12-0072-01, Slide #7

November 2012

ec-12-0072-01-00EC

## Revision of Chair's Guidelines

- There is no stated requirement for approval of the Chair's guidelines in the P&P, OM or WG P&P
- If approval is required, majority vote would suffice.

802 EC Rules

James Gilb (Tensorcom)

Gilb presented EC12-0070-01

November 2012

ec-12-0070-00-00EC

## Proposed changes to Chair's Guidelines November 2012 meeting

802 EC Rules

James Gilb (Tensorcom)

# Introduction

- Terms
  - P&P: IEEE 802 LMSC Policies and Procedures
  - OM: IEEE 802 LMSC Operations Manual
  - WG P&P: IEEE 802 LMSC Working Group Policies and Procedures
  - CG: IEEE 802 LMSC Chair's Guidelines

## 4.1.5 Revision of Chair's Guidelines

- There is no stated requirement for approval of the Chair's guidelines in the P&P, OM or WG P&P
- If approval is required, majority vote would suffice.



## CG 2.4 CD-ROMs

- We are now using DVDs and may switch to other, appropriate medium later.
- Proposed changes to 2.4 are extensive in words, small in effect.
  - Change “CD-ROM” to other words
  - Allow Recording Secretary to determine format
  - State that a durable, physical format (e.g., CD-ROM or DVD) is preferred.
  - Listed on next slide.

802 EC Rules

James Gilb (Tensorcom)

November 2012

ec-12-0070-00-00EC

## CG 2.4 new text

Standards distribution in electronic format (EC Motion Origin)

(Originally an EC motion, updated by EC motion 16 November 2012).

This guideline defines the mechanism for generating and handing out IEEE 802 LMSC standards. The Recording Secretary shall be responsible for determining for the format and for creating the version for that year. The Sponsor has requested that the format be a durable, physical format, such as CD-ROM or DVD.

1. The distribution contains at a minimum
  - all PDF files for IEEE 802 LMSC standards that are active, withdrawn or superseded, that have been published by September 30 anywhere on earth.
  - the approved IEEE 802 rules including: IEEE 802 LMSC Policy and Procedures, IEEE 802 LMSC Operations Manual, IEEE 802 LMSC Working Group Policies and Procedures and IEEE 802 LMSC Chair's Guidelines.
2. Produced once a year, initial distribution at November plenary session and the current version is available for distribution during the plenary session.
3. In order to receive a copy of the standards, the individual shall be registered at the plenary meeting where the standards are distributed
4. Distribution is offered during badge pickup.
5. The license is for personal use only – individuals will initial receipt of the standards.
6. Previously issued versions of the standards are licensed to recipient only and is not transferable. The recipient may keep it for archival purposes or should be destroyed.
7. The Sponsor Chair may make an exception to the above, subject to copyright requirements of the IEEE.

802 EC Rules

James Gilb (Tensorcom)

## CG 2.5 Tutorials

- Change Mechanics to be:
  - Hosted by a voting Sponsor member.
  - Executive Secretary shall provide a tutorial request form that shall be made available on the 802 website.
  - Requests are sent to the Sponsor email reflector no earlier than the end of the plenary meeting immediately preceding the plenary meeting in which the tutorial is requested. Requests shall be sent no later than 45 days in advance of the start of plenary meeting in which they are to be presented.
  - The Executive Secretary schedules the Tutorials and announces the schedule to the Sponsor reflector at least 30 days before the meeting.
  - Conflicts to be resolved by Executive Secretary and Sponsor Chair based on most importance to IEEE 802 LMSC.
  - Schedule is provided on 802 website with abstracts 7 days before the meeting.
  - The final PDF version of the presentations shall be filed with the recording secretary at least 24 hours before the tutorial, or the tutorial may be postponed.
  - Held Monday, 6:00 pm–7:30 pm, 7:30 pm– 9:00 pm, 9:00 pm–10:30 pm, and are held on Tuesday only on an optional basis (i.e., concurrent WG meetings are allowed)
  - Tutorials in support of a new PAR should be conducted Monday evening.

802 EC Rules

James Gilb (Tensorcom)

November 2012

ec-12-0070-00-00EC

## CG 2.6 and 2.17

- CG 2.6
  - Delete entire 2.6 as it is no longer relevant, we rent sufficient projectors for all sessions
- CG 2.17
  - For Recording Secretary, replace “2) Draft, produce and distribute executive committee meeting minutes to committee members and liaisons within 30-40 days after meeting.” with “2) Maintain Sponsor email reflector and determine reflector settings.”
  - Move P&P requirement for website duties from P&P to this location.
  - Generate informal communications regarding status of all new 802 work (e.g. PARs under consideration, Study Group status) to other organizations at the discretion of the Sponsor Chair.
    - Delete the “P” from 802 after the paragraph where this is inserted.

802 EC Rules

James Gilb (Tensorcom)



## CG 3.x changes

- CG3.x Add the following interpretations (from email archive)
  - Number of recirculations allowed based on conditional approval (2)
  - Number of room nights needed to qualify for reduced registration fee (1)

802 EC Rules

James Gilb (Tensorcom)

Discussion regarding proposed changes.

Slide 8 from 12-0072-1 shown.

November 2012

ec-12-0072-01-00EC

## Changes to Chair's Guidelines

- This motion is proposed using the EC's normal process to take action.
- Moved: The 802 EC approves the changes in ec-12-0070-01 to the IEEE 802 LMSC Chair's Guidelines.
- Moved by James Gilb
- Second by

802 EC Rules

James Gilb (Tensorcom)

Motion#7	The 802 EC approves the changes in ec-12-0070-01 to the IEEE 802 LMSC Chair's Guidelines.		
Moved	Gilb		
Second	Jeffree		
Results	(y/n/a)	14 / 0 / 0	

Gilb presented EC-12-0072-01, Slide 9

November 2012

ec-12-0072-01-00EC

## 5C changes

- This motion is proposed using the process for the approval of the OM and WG P&P
- Moved: The 802 EC approves the changes in ec-12-0056-03 to the IEEE 802 LMSC Operations Manual with options x and y.
- Moved by James Gilb
- Second by

802 EC Rules

James Gilb (Tensorcom)

Gilb presented EC-12-0056-03.

Proposal is to have a top-level clause for the 5C and to update to reflect the current state of our groups and technology.

## **11.2 IEEE 802 LMSC Approval**

*From 11.2 in the OM, change the second paragraph as shown:*

Approval of the PAR by the EC is contingent on inclusion of accepted responses describing how the proposed PAR meets the five criteria ~~and a work plan for the development of managed object definitions, either as part of the PAR or as a part of an additional PAR.~~ PARs which introduce no new functionality are exempt from the requirement to provide responses to the five Criteria. Examples of such PARs are: Protocol Implementation Conformance Statements (PICS), Managed Object Conformance Statements (MOCS), PARs to correct errors, and PARs to consolidate documents.

*Replace 11.5 Criteria for Standards Development (Five Criteria) with the following as Clause 12 (changes from existing 11.5 are shown)*

## **1. Criteria for Standards Development (Five Criteria)**

### **1.1 Broad Market Potential**

A standards project authorized by IEEE 802 LMSC shall have a broad market potential. Specifically, it shall have the potential for:

- a) Broad sets of applicability.
- b) Multiple vendors and numerous users.
- c) ~~Balanced costs (LAN versus attached stations).~~

*Rationale: Balanced costs doesn't apply to much of what we do today. However, the broad set of applicability and multiple vendors is still relevant.*

### **1.2 Compatibility and Coexistence**

*Option 1:*

IEEE 802 LMSC defines a family of standards. All standards should be in conformance with ± IEEE Std 802, IEEE 802.1D, and IEEE 802.1Q. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with IEEE 802.1 Working Group prior to submitting a PAR to the Sponsor. ~~In order to demonstrate compatibility with this criterion, the Five Criteria statement must answer the following questions:~~

- a) Will ~~Does~~ the proposed standard ~~PAR mandate that the standard shall~~ comply with IEEE Std 802, IEEE Std 802.1D and IEEE Std 802.1Q?
- b) If the answer to a) is no, not, supply the response how will the Working Group ensure that the resulting draft standard is compliant, or if not, receives appropriate review from the IEEE 802.1 Working Group.

*End Option 1:*

*Option 2:*

IEEE 802 LMSC defines a family of standards. All standards should be in conformance with IEEE Std 802, IEEE Std 802.1D, and IEEE Std 802.1Q. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with IEEE 802.1 Working Group. ~~In order to demonstrate compatibility with this criterion, the Five Criteria statement must answer the following questions:~~

- a) Will ~~Does~~ the proposed standard ~~PAR mandate that the standard shall~~ comply with IEEE Std 802, IEEE Std 802.1D and IEEE Std 802.1Q?
- b) ~~If the answer to a) is no, not supply the response how will the Working Group ensure that the resulting draft standard is compliant, or if not receives appropriate review from the IEEE 802.1 Working Group.~~

*End Option 2:*

*Option 3:*

If the PAR proposes a wireless standard for unlicensed operation, the a WG proposing a wireless project is required to demonstrate coexistence through the preparation of a Coexistence Assurance (CA) document unless it is not applicable. Accordingly, the Five Criteria statement shall answer the following questions:

*End Option 3:*

*Option 4:*

The WG project is required to demonstrate coexistence through the preparation of a Coexistence Assurance (CA) document unless it is not applicable. Accordingly, the Five Criteria statement shall answer the following questions:

*End Option 4:*

- a) Will the WG create a CA document as part of the WG ballooning process?
- b) If not, explain why the CA document is not applicable.

*Rationale: We want to retain 5C (not 6C) and it currently is in a strange position. Coexistence and compatibility seem similar enough to share a 5C, plus the questions are similar.*

The Five Criteria statement shall describe the plan for developing a definition of managed objects as part of the project, or part of a different project, or explain why such a definition is not needed.

*Rationale: We have required this, but it is not typically reviewed during PAR approval. Putting it in the 5C will assist us in ensuring that this requirement is met.*

### *1.3 Distinct Identity*

Each IEEE 802 LMSC standard shall have a distinct identity. To achieve this, each authorized project shall ~~be:~~ state why it is substantially different from other standards.

- ~~a) Substantially different from other IEEE 802.11MCS standards.~~
- ~~b) One unique solution per problem (not two solutions to a problem).~~
- ~~c) Easy for the document reader to select the relevant specification.~~

*Rationale: b) applies more to the finished draft, rather than the P.A.R. Plus, I think that a lot of our standards violate the letter of this, there are often multiple options in a standard that solve basically the same problem. This seems to be an outgrowth of our desire to obtain consensus.*

*Rationale: c) doesn't make sense, this implies that it is the title that matters.*

*Finally, if we delete 2 out of the 3 list items, we should make it just single sentence.*

## 1.4 Technical Feasibility

For a project to be authorized, it shall be able to show its technical feasibility. At a minimum, the proposed project shall show:

- a) Demonstrated system feasibility.
- b) Proven similar technology, ~~reasonable testing,~~ via testing modeling simulation etc.
- ~~c) Confidence in reliability.~~

*Rationale: Typically we specify standards for emerging technology, which has not yet been proven when the P.A.R. is proposed. Similar technology typically has been demonstrated. The term "reasonable testing" seems very difficult to quantify. Finally, with respect to reliability, I will simply quote Gilb's 4th law on unreliability (distant relation, we think), "Investment in reliability will increase until it exceeds the probable cost of errors, or until someone insists on getting some useful work done."*

### ~~1.4.1 Consistence of IEEE 802.11MCS wireless standards specifying devices for unlicensed operation~~

- ~~— A WG proposing a wireless project is required to demonstrate consistence through the preparation of a Consistence Assurance (CA) document unless it is not applicable.~~
- ~~— The WG will create a CA document as part of the WG balloting process.~~
- ~~— If the WG elects not to create a CA document, it will explain to the Sponsor the reason the CA document is not applicable.~~

*Rationale: This doesn't really belong here, so I suggest moving it to the Compatibility section.*

## 1.5 Economic Feasibility

For a project to be authorized, it shall be able to show economic feasibility (so far as can reasonably be estimated) for its intended applications. ~~At a minimum, the proposed project shall show.~~ The proposed project shall provide a summary of the "cost for performance" analysis, showing the assessment factors including, at a minimum, the affect of installation costs.

- ~~a) Known cost factors, reliable data.~~
- ~~b) Reasonable cost for performance.~~

~~e) Consideration of installation cost:~~

*Rationale: For a), the cost factors would be "known" only for similar systems as the proposed system may not yet exist. As far as "reliable data", I will quote Gilb's 2nd law of unreliability, "Any system which depends on human reliability is unreliable."*

*For c), I don't think we have the expertise to analyze this for the cases where it would matter (e.g., for base stations). Most of our development now goes into closets or is mounted on the wall or ceiling. Installation costs tend to be constant, regardless of the technology that is selected. Hence, it does not really belong here.*

Discussion various aspects of the proposed changes.

It was noted that responses to comments submitted by 802.3 by Tues 5pm were not responded to by Wed 5pm

Motion#8	In the Operations Manual under Broad Market Potential Delete Item 3.
Moved	Gilb
Second	Heilee
Results	(y/n/a) 11 /3 / 0
Motion	Motion Passes

Discussion regarding 1.3, - there was disagreement about the text.

StrawPoll #2: Three Options for Rewording of Distinct Identity Criteria

Option 1:	4
Option 2	3
Option 3 neither of the two:	6

This topic is to be discussed further at IEEE 802 Leadership workshop tomorrow. New text would be discussed tomorrow, The OM can only be changed in face-to-face plenary meetings, which will delay any changes until March.

D'Ambrosia presented EC-2012-0066-00

John D'Ambrosia (Dell), IEEE 802 LMSC Recording Secretary  
Kathryn Bennett, IEEE-SA

Two issues were discussed this year during the ANNUAL CD Distribution

Part 1: Defining the time period of standards to be published on the CD. (For this year all standards that were published by end of September were included on CD).

During the CD Process this year, we learned of the agreement forged for this process by Jim Carlo, Nov 1998. We want the agreement to have a more concrete date range so that we can have a cleaner, more manageable process.

IEEE-SA Preferred phrasing option: Standards to be included on CD-ROM for distribution shall include those approved and published from July 1 of the previous calendar year to July 1 of the current calendar year. I note that there is other language in this agreement that needs updating as well.

Part 2: The CD ROM agreement – the IEEE-SA has provided the following marked up document (see next page).

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CD-ROM Production Update Agreement (Passed by SEC 9 July 98 Proposed to the EC Nov 2012)

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- 1) IEEE 802 is authorized to make 500 CD-ROM copies, using with \*.pdf images of all current 802 standards all 802 standards approved and published from July 1 of the previous calendar year to July 1 of the current calendar year, once each calendar year. The CD-ROM license will limit use to a single user, non-transferable, access.
- 2) IEEE 802 may distribute the CD-ROMS to bonafide, registered, 802 Working Group Voting Members (these are the active 802 participants per the IEEE 802 rules). No person shall receive more than one copy of each CD ROM edition regardless of attendance or participation.
- ~~3) IEEE Standards Office may sell additional copies of the CD-ROM to other 802 meeting attendees at a discount of ??% on the established retail price.~~
- ~~4) Administrative and production details will be handled in a later within the IEEE 802 CD-ROM Licensing Agreement. This agreement is to be updated by the 802 Recording Secretary and reviewed by IEEE-SA Licensing annually.~~
- ~~5) IEEE 802 will continue to make drafts available to the IEEE Standards Office in pdf format to support the Standards Office sale of current drafts. Will move drafts to the IEEE Server when PC access problems are resolved.~~
- ~~3) Books will be distributed to those participants of the working Group and major contributors listed in front matter of the standard who directly contributed to that standard or supplement.~~
- ~~4) This policy will be reviewed by both parties each year on an as needed basis~~ to ensure its appropriateness and to make any adjustments in the product development process and business arrangements that might be necessary.

Comment [KB1]: We don't and won't sell these.

Comment [KB2]: This is part of the balloting process and does not need to be restated here

Comment [KB3]: This statement does not apply to current process. The indicated individuals are provided with a courtesy copy of the standard when it is initially published.

See Motion #7 for changes to Chair's Guidelines, regarding what standards will be included on the CD, based on the publication date.

Action Item - D'Ambrosia to have digital media agreement reviewed and updated.

<b>5.01</b>	<b>ME</b>	<b>IEEE 802.11, P802.11aq (PAD) to NesCom</b>	<b>Kraemer</b>	<b>4</b>	<b>02:36 PM</b>
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Kraemer presented 802.11-12/1228r5, Slides 3 – 8 . PAR embedded in noted document. Slide #4 contains motion.

November 2012

doc.: IEEE 802.11-12/1228r5

## 802.11 Pre-association Discovery (PAD) PAR

Submission

Slide 3

Adrian Stephens, Intel Corporation

November 2012

doc.: IEEE 802.11-12/1228r5

### Agenda

#### 5.01

### 802.11 PAD PAR Motion

- **Approve the PAR content contained in 802.11-12/1081r6 be submitted to NesCom.**
- **Moved: Bruce Kraemer**
- **Seconded: Apurva Mody**
- **In the WG:**
  - Result: 78,0,0



Submission

Slide 4

Adrian Stephens, Intel Corporation

## IEEE 802.11aq PAR Scope

- **5.2.b. Scope of the project:**
- **This amendment defines modifications to the IEEE 802.11 standard, above the physical layer (PHY), to enable delivery of pre-association Service Discovery information discovery by IEEE 802.11 stations (STAs).**

## IEEE 802.11aq PAR Purpose 1

- **5.5 Need for the Project:**
- **The WLAN environment is evolving and is no longer one where stations are merely looking for access to internet service. This creates opportunities to deliver new services, as the IEEE 802.11 standard needs to be enhanced to better advertise and describe these new services.**
- **This amendment will provide mechanisms that assist in pre-association discovery of services by addressing the means to advertise their existence and enable delivery of information that describes them. This information about services is to be made available prior to association by stations operating on IEEE 802.11 wireless networks.**

## IEEE 802.11aq PAR Purpose 2

- There are existing higher layer service discovery/description approaches (e.g. Universal Plug and Play - UPnP, Bonjour) as well as mechanisms to deliver information in pre-association states (e.g. just as Access Network Query Protocol - ANQP can be delivered over Generic Advertisement Service - GAS).
- The group will evaluate advertising services that permit information about these services to be delivered using an approach that may avoid developing yet another service description scheme while leveraging the existing evolving schemes.

Submission

Slide 7

Adrian Stephens, Intel Corporation

November 2012

doc.: IEEE 802.11-12/1228r5

## WG 5C Motion (for information)

Microsoft Word  
7 - 2003 Document

- Believing that the Five Criteria contained in the document referenced below meets IEEE 802 guidelines, request that the Five Criteria contained in 802.11-12/1137r6 be posted to the IEEE 802 Executive Committee (EC) agenda for EC approval.
- Moved on behalf of PAD SG by Stephen McCann
- Second: Dwight Smith
- WG Result: 72,0,1
- PAD SG Result: Moved: Dwight Smith, 2nd: Michael Montemurro, Result: 33/0/0

Submission

Slide 8

Adrian Stephens, Intel Corporation

Motion#9	Approve the PAR content contained in 802.11-12/1081r6 be submitted to NesCom.		
Moved	Kraemer		
Second	Mody		
Results	(y/n/a)	12 / 0 / 0	
Motion	Motion Passes		





5.02	ME	IEEE 802.11, P802.11ak (GLK) to NesCom	Kraemer	4	02:40 PM
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Kraemer presented IEEE 802.11-1228/r5, slide 9-13. PAR document embedded in document.

November 2012

doc.: IEEE 802.11-12/1228r5

## 802.11 General Link (GLK) PAR

Submission

Slide 9

Adrian Stephens, Intel Corporation

November 2012

doc.: IEEE 802.11-12/1228r5

### Agenda

#### 5.02

### 802.11 GLK PAR Motion

- Approve the PAR content contained in 11-12-1207r1 be submitted to NesCom.
- Moved: Bruce Kraemer
- Seconded:
- In the WG:
  - Result: 86,0,0



Submission

Slide 10

Adrian Stephens, Intel Corporation

## Scope

### 5.2.b. Scope of the project:

**This amendment specifies protocols, procedures, and managed objects to enhance the ability of IEEE P802.11 media to provide internal connections as transit links within IEEE Std 802.1Q bridged networks.**

## Purpose

### 5.4 Purpose:

**The purpose of this standard is to provide wireless connectivity for fixed, portable, and moving stations within a local area. This standard also offers regulatory bodies a means of standardizing access to one or more frequency bands for the purpose of local area communication.**

## WG GLK 5C Motion (for information)



- Believing that the Five Criteria contained in the document referenced below meets IEEE 802 guidelines,
- Request that the Five Criteria contained in 11-12/1077r4 be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval.
- Moved by Donald Eastlake 3<sup>rd</sup> on behalf of GLK SG
- Seconded: Mark Hamilton
- WG Result: 46,0,1 - passes
- GLK SG vote:
  - Moved: Mark Hamilton, Seconded: Stuart Kerry
  - Result: Yes: 18 No: 0 Abstain: 3

Submission

Slide 13

Adrian Stephens, Intel Corporation

Motion#10	Approve the PAR content contained in 11-12-1207r1 be submitted to NesCom.		
Moved	Kraemer		
Second	Jeffree		
Results	(y/n/a)	13/0/0	
Motion	Passes		

5.03	ME	IEEE 802.15, P802.15.4j to RevCom (Conditional)	Heile	4	02:44 PM
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Heile presented IEEE 802.15-12-0674-00,slides 20 – 23

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4j Conditional Approval to Forward to RevCom

Submission

Bob Heile, ZigBee Alliance

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4j Sponsor Ballot History

- 103 people in the Sponsor Ballot Pool.
- Initial Ballot Opened Oct 9, closed Nov 8.
  - 81 responses (78% response ratio)
  - 73 Yes, 0 No (100% approval ratio)
  - 8 abstain (9% abstain ratio)
  - 16 comments received:
    - 1 “Must Be Satisfied” comment from IEEE staff,
    - 3 Technical comments,
    - 12 Editorial comments
- All comments accepted at Nov 802 Plenary Session

Submission

Bob Heile, ZigBee Alliance

## 802.15.4j Recirculation Schedule

- Recirculation started Nov 15, 2012 and is scheduled to close Nov 25, 2012
- For those interested in the comments they can be found at:  
<https://mentor.ieee.org/802.15/dcn/12/15-12-0586-00-004k-lb85-comment-resolution-more-proposed-resolutions.xlsx>

Submission

Bob Heile, ZigBee Alliance

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## EC motion for 802.15.4j

*Motion: The 802.15 working group requests conditional approval from the EC to submit d5P802-15-4j draft amendment to RevCom*

WG vote (48, 0, 0)

•EC vote

– Moved Heile, Seconded Gilb

Submission

Bob Heile, ZigBee Alliance

Motion#11	The 802.15 working group requests conditional approval from the EC to submit d5P802-15-4j draft amendment to RevCom		
Moved	Heile		
Second	Gilb		
Results	(y/n/a)	14/0/0	
Motion	Passes		

5.04	ME	IEEE 802.15, P802.15.4k to Sponsor Ballot (Conditional)	Heile	4	02:48 PM
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Heile presented 12-0674-00, slides 25-32

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4k Conditional Approval to Start Sponsor Ballot

Submission

Bob Heile, ZigBee Alliance

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4k Letter Ballot History

Initial Letter Ballot closed 15 September 2012

- Vote Results (pool of 145 voters)
  - 95 Responses (66%)
  - 83 Yes, 8 no (91% approval ratio)
  - 4 Abstain (4%)
  - Ballot passes
- 280 comments from 22 commenters
  - 95 Must Be Satisfied (38 accepted, 18 rejected, 37 revised)
  - 185 Other

Submission

Bob Heile, ZigBee Alliance



## 802.15.4k Ballot History

Recirc-1 closed 24 October 2012

- Final cumulative vote results (pool of 145 voters)
  - 102 Responses (70% response ratio)
  - 91 Yes, 7 no (93% approval ratio)
  - 4 Abstain (4% abstain ratio)
  - Ballot passes
- 98 comments from 9 commenters
  - 9 Must Be Satisfied (7 accepted, 2 rejected)
  - 89 Other
- 13 comments from 1 (IEEE-SA EC) commenter
  - 13 Must Be Satisfied (13 accepted)
  - 0 Other

---

Submission

Bob Heile, ZigBee Alliance

## 802.15.4k Ballot History

- 6 “no” voters sent emails to TG4k chair indicating they were satisfied with the resolution to their comments and changed their votes to “yes” resulting in only 1 remaining “no” voter
- Current Approval Rating:
  - 97 Yes
  - 1 No
  - 4 Abstain
- Comment Resolution Spreadsheet:  
<https://mentor.ieee.org/802.15/dcn/12/15-12-0490-13-004k-802-15-4k-consolidated-comments.xlsx>

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Submission

Bob Heile, ZigBee Alliance

## 15.4k Comment from Editorial Coordination Staff

**13 Must Be Satisfied editorial comment have been applied to the draft. In Summary, these are:**

- Please include a list of figures and a list of tables.
- Please consider using "shall" instead of "must" per the Style Manual.
- There are several other comments concerning:
  - a. Numbering and location of tables.
  - b. Unchanged text not matching previous amendments
  - c. Location/replacement of table rows
  - d. Insertion of the new bibliographic entry

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Submission

Bob Heile, ZigBee Alliance

## Comments supporting No votes

- 7 Total comments from 1 No voter
  - 4 “Must Be Satisfied” (MbS) comments
  - voter remains unsatisfied
- “Must Be Satisfied” Comment Resolution:
  - Revised
    - 1 comment considered that the TID extension parameter did not provide additional security”. Response was that the TID was present to provide additional device uniqueness, not security
    - 1 comment concerned the wording and completeness of HWSL. Response agreed on the wording issue but disagreed with commenter on completeness of HWSL stating that the additional functionality was not appropriate at the MAC level, being better put above the MAC.
  - Rejected
    - 2 comments concerned the security of fragments; Response is reject, since security is already implemented in the frame and adding security to the fragments would not increase message security but would create excessive overhead

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Submission

Bob Heile, ZigBee Alliance

## 802.15.4k Schedule for ballots and meetings

- 2nd recirculation
  - 21 November 2012 to 6 December 2012
- BRC comment resolution teleconference
  - 7 December, 2012
- 3rd recirculation (if necessary)
  - 10 December to 25 December 2012
- BRC comment resolution teleconference
  - 27 December, 2012 (if necessary)

Submission

Bob Heile, ZigBee Alliance

## 15.4k EC motion

*Motion: 802.15 requests the EC grant conditional approval to submit 802.15.4k draft to Sponsor Ballot*

(WG vote 48-0-0)

- EC vote
  - Moved: Heile, Seconded: Chaplin

Submission

Bob Heile, ZigBee Alliance

Motion#12	802.15 requests the EC grant conditional approval to submit 802.15.4k draft to Sponsor Ballot		
Moved	Heile		
Second	Chaplin		
Results	(y/n/a)	14 / 0 / 0	
Motion	Passes		

5.05	ME	IEEE 802.15, P802.15.4q PAR to NesCom	Heile	4	02:52 PM
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Heile presented 12-0674-00, slides 11-15

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4q ULP PAR to NesCom

Submission

Bob Heile, ZigBee Alliance

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4q ULP PAR to NesCom

### Summary of Action on Comments Received

- There were 3 comments received -one on the PAR from Paul and two comments on the 5C from 802.11.
- The PAR has been updated (now 386r6) to reflect the corrected purpose entry, namely the purpose now shows as blank which was the originally selected option when the PAR was submitted on MyProject
- A clause has been added to the 5C (now 387r6) to enhance clarity.

These are available at <http://ieee802.org/15/pending.html>

Submission

Bob Heile, ZigBee Alliance

## 802.15.4q ULP PAR to NesCom

### 802.11 comments to 802.15.4q:

5C 3a Suggests that some existing 15.4 devices can operate with coin cell batteries. This would imply that the existing standard is sufficient for building compliant devices operating with coin cell batteries.

Q: Why do you need a new Standard? How is it unique from the existing standard?

A: 5C 3a says the current standard *cannot be used to power the majority of the existing 802.15.4 chipsets in these applications*. The operative word is majority. Addressing only a small subset is missing a big market opportunity. This amendment addresses a solution enabling a far broader set of applications than is currently possible. The clause: *--In a much broader set of applications--* is being added to the end of the sentence: *--This 802.15.4 PHY amendment allows the use of smaller battery form factors such as coin cell batteries.--* to enhance clarity on this point.

5C 3a seems to infer that the problem being solved is related to pulse current, while 3b suggests the problem is average current.

Q: What is the actual problem?

A: 5C 3b says: *The proposed amendment to IEEE 802.15.4 will provide a unique solution for ultra low power applications*. This is the entire statement under 3b. It makes no reference to average power, nor is average power mentioned anywhere in the 5C so we are at a bit of a loss to understand the question. Clearly average power is important in achieving long battery life so the lower the average power the better. The primary issue with energy constrained sources, like coin cells, is their inability to deliver high peak power so that is also of primary interest here. If that can be achieved at lower average power too, so much the better.

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Submission

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Bob Heile, ZigBee Alliance

## 802.15.4q ULP PAR to NesCom

### Paul Nikolich comment on purpose:

The current purpose states:

5.4 Purpose: *The standard provides for ultra low complexity, ultra low cost, ultra low power consumption, and low data rate wireless connectivity among inexpensive devices. The raw data rate is high enough (250 kb/s) to satisfy a set of applications....*

Would it make sense to remove the complexity and cost parameters from the purpose to give the project some flexibility? My concern is this, if the WG couldn't meet all three requirements, it may prevent the rapid completion of the project. Additionally, you've sort of covered the low complexity/cost requirement by specifying "inexpensive devices" in Purpose.

Response: In the submission to MyProject, the group chose not to submit a purpose statement which is one of the MyProject options for amendments. The purpose statement appearing in the PAR, rather than being blank, was assigned by MyProject and is apparently one of the original purpose statements. Staff has corrected the problem so the purpose statement for this amendment is now blank per the initial submission selection.

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Submission

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Bob Heile, ZigBee Alliance

## 802.15.4q ULP PAR to NesCom

Motion: *request that the 802.15.4q (15-12-0386-06)  
PAR be forwarded to NesCom for action.*  
(WG vote 47/0/0)

Moved Bob Heile, seconded by Clint Chaplin.

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Submission

Bob Heile, ZigBee Alliance

Motion#13	Request that the 802.15.4q (15-12-0386-06) PAR be forwarded to NesCom for action.		
Moved	Heile		
Second	Chaplin		
Results	(y/n/a)	14 / 0 / 0	
Motion	Passes		



5.06	ME	IEEE 802.15, P802.15.4 Corr1 (Submitted under 48 hr rule) to NesCom	Heile	4	02:56 PM
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Heile presented 12-0674-00, Slides 16-18

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4 Corrigendum PAR to NesCom

Submission

Bob Heile, ZigBee Alliance

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## 802.15.4 Corrigendum PAR to NesCom

Motion: *request that the 802.15.4 Corr1 (15-12-0640-00) PAR be forwarded to NesCom for action.*  
(WG vote 46/0/0)

Moved Bob Heile, seconded by Clint Chaplin.

Submission

Bob Heile, ZigBee Alliance

## 802.15.4 Corrigendum PAR to NesCom

Motion: *request that the 802.15.4 Corr1 (15-12-0640-00) PAR be forwarded to NesCom for action.*  
(WG vote 46/0/0)

Moved Bob Heile, seconded by Clint Chaplin.

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Submission

Bob Heile, ZigBee Alliance

Motion#14	Request that the 802.15.4 Corr1 (15-12-0640-00) PAR be forwarded to NesCom for action.		
Moved	Heile		
Second	Chaplin		
Results	(y/n/a)	13 / 0 / 0	
Motion	Passes		

5.07	ME	IEEE 802.16, P802.16n to RevCom (Conditional)	Marks	4	03:00 PM
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Marks presented IEEE 802.16-12-0694-00.

IEEE 802.16-12-0694-00-Gdoc

## P802.16n to RevCom: Conditional Approval Request

15 Nov 2012

### Rules: OM (2012-07-20) Clause 13

motions requesting conditional approval to forward  
when the prior ballot has closed shall be  
accompanied by:

- Date the ballot closed
- Vote tally including Approve, Disapprove and Abstain votes
- Comments that support the remaining disapprove votes and Working Group responses.
- Schedule for recirculation ballot and resolution meeting.

## Dates the ballots closed

<u>Stage</u>	<u>Open</u>	<u>Close</u>
Sponsor Ballot	14-Aug-2012	14-Sep-2012
Sponsor Recirc	22-Oct-2012	6-Nov-2012

## Vote tally including Approve, Disapprove and Abstain votes

82 Approve (100%)

- 0 Disapprove with comment
- 0 Disapprove without comment
- 3 Abstain

## Disapprove Comment Details

No disapprove comments

## Schedule for recirculation and confirmation ballot

- Sponsor Recirculation Ballot on P802.16n/D7 (approximately Dec 10, 2012 – Dec 31, 2012)
- Review comments at Session #84 (Jan 14 – 18, 2013)
- Conduct confirmation ballot (if necessary) , to open on or before January 24, 2013



## 802.16 WG Motion

802.16 Closing Plenary: 2012-11-15

Motion: "To authorize the editor to generate Draft P802.16n/D7 based on Draft P802.16n/D6 and the comment resolutions in "IEEE 802.16-12-0645-02-Gdoc", to process the RevCom Conditional Approval request in document 802.16-12-0694, and forward Draft P802.16n/D7 for Recirculation Sponsor Ballot"

- Proposed: Tim Godfrey
- Seconded:
- Approved:

## LMSC Motion

- To grant conditional approval, per Clause 13 of the IEEE 802 Operations Manual, to forward P802.16n to RevCom for approval
- Moved:
- Seconded:
- Approve:
- Disapprove:
- Abstain:

Motion#15	To grant conditional approval, per Clause 13 of the IEEE 802 Operations Manual, to forward P802.16n to RevCom for approval.	
Moved	Marks	
Second	Thaler	
Results	(y/n/a)	14/0/0
Motion	Passes	

5.08	ME	IEEE 802.16, P802.16.1.a to RevCom (Conditional)	Marks	4	03:04 PM
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Marks presented IEEE 802.16-12-0695-00

IEEE 802.16-12-0695-00-Gdoc

## P802.16.1a to RevCom: Conditional Approval Request

15 Nov2012

### Rules: OM (2012-07-20) Clause 13

motions requesting conditional approval to forward  
when the prior ballot has closed shall be  
accompanied by:

- Date the ballot closed
- Vote tally including Approve, Disapprove and Abstain votes
- Comments that support the remaining disapprove votes and Working Group responses.
- Schedule for recirculation ballot and resolution meeting.

## Dates the ballots closed

<u>Stage</u>	<u>Open</u>	<u>Close</u>
Sponsor Ballot	14-Aug-2012	14-Sep-2012
Sponsor Recirc	22-Oct-2012	6-Nov-2012

## Vote tally including Approve, Disapprove and Abstain votes

82 Approve (100%)

- 0 Disapprove with comment
- 0 Disapprove without comment
- 4 Abstain

## Disapprove Comment Details

No disapprove comments

## Schedule for recirculation and confirmation ballot

- Sponsor Recirculation Ballot on P802.16.1a/D7 (approximately Dec 10 - 31, 2012)
- Review comments at Session #84 (Jan 14 – 18, 2013)
- Conduct confirmation ballot (if necessary) , to open on or before January 24, 2013

## 802.16 WG Motion

802.16 Closing Plenary: 2012-07-19

Motion: "To authorize the editor to generate Draft P802.16.1a/D7 based on Draft P802.16.1a/D6 and the comment resolutions in "IEEE 802.16-12-0646-02-Gdoc", to process the RevCom Conditional Approval request in document 802.16-12-0695, and forward Draft P802.16.1a/D7 for Recirculation Sponsor Ballot."

- Proposed: Tim Godfrey
- Seconded:
- Approved:

## LMSC Motion

- To grant conditional approval, per Clause 13 of the IEEE 802 Operations Manual, to forward P802.16.1a to RevCom for approval
- Moved:
- Seconded:
- Approve:
- Disapprove:
- Abstain:

Motion#16	To grant conditional approval, per Clause 13 of the IEEE 802 Operations Manual, to forward P802.16.1a to RevCom for approval.	
Moved	Marks	
Second	Kraemer	
Results	(y/n/a)	14/0/0
Motion	Passes	



5.09	ME	IEEE 802.16, P802.16r PAR to NesCom	Marks	4	03:08 PM
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Marks presented IEEE 802.16-12-0677-00

IEEE 802.16-12-0677-00-Sher

## Responses to EC Comments on Draft P802.16r PAR in IEEE 802.16-12-0587-02

### Abstract

This document proposes responses to EC Comments on draft P802.16r PAR in IEEE 802.16-12-0587-02.

### Background

On 24 September 2012, the IEEE 802.16 Working Group Chair [notified](#) the IEEE 802 EC reflector of draft PAR P802.16r ([IEEE 802.16-12-0587-02](#) ["*IEEE Std 802.16 Amendment for Small Cell Backhaul (SCB) Applications: Proposed PAR*"]<sup>1</sup>) for consideration at the November 802 Plenary. Per the IEEE 802 LMSC Operations Manual, comments received by other WGs by 5:00 p.m. on Tuesday of the plenary session must be addressed with a response in the EC reflector by 5:00 p.m. on Wednesday.

### Comments Received from EC Chair

EC Chair Paul Nikolich [submitted a comment](#) reading:

*Roger,*

*I have one comment regarding the 802.16r PAR.*

*Please explain the WG's rationale behind labeling the PAR with a particular application (SCB) as opposed to a generic label with it's functional capabilities (e.g., a BWA PHY/MAC with near-Gbps peak capacity or throughput, etc.).*

*Another alternative is to take an approach similar to the 802.3 WG which labels some of their PHY projects simply with the peak data rate and physical media supported. This has the advantage, in my opinion, keeping the perception of the applications for the project wide open and, hence, may encourage wider participation.*

*Regards,*

*--Paul*

### Proposed Response to Comments Received from EC Chair

This contribution proposes the following response to comments received from the EC Chair:

Dear Paul,

Thank for your comments on the draft P802.16r PAR.

We appreciate your observations. Still, we would like the PAR title to reflect a focus on a particular

deployment scenario for which industry bodies are actively developing technical requirements. Also, we do not believe that a peak data rate can be meaningfully assigned.

To address your comment, we will make the following changes:

Title: *Standard for Air Interface for Broadband Wireless Access Systems – Amendment for Small Cell Backhaul (SCB)*

This project will develop an amendment specifying enhancements to the WirelessMAN-OFDMA air interface for effective use in ~~wireless fixed and nomadic Ethernet transport~~ (including small cell backhaul applications, providing core network services to radio access networks).

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#### Comments Received from IEEE 802.11 WG

The IEEE 802.11 WG [submitted a comment](#) reading:

PAR 5.2b – suggest that you do not need the phrase “particularly below 6 GHz” or change to say that this is just below 6 GHz.

General Question: What is the expected data rate that you are looking to define?

What is the new standard providing that is not being provided by LTE?

#### Proposed Response to Comments Received from IEEE 802.11 WG

This contribution proposes the following response to comments received from the IEEE 802.11 WG:

Dear IEEE 802.11 WG,

Thank for your comments on the draft P802.16r PAR.

We appreciate your observation regarding the frequency range. To address your comment, we will make the following changes:

*It will focus on backhaul operating in licensed bands below ~~44 GHz, particularly below~~ 6 GHz.*

In response to your question about data rates, we prefer not to state that in the PAR, since it will depend on factors such as the available spectral bandwidth. We are seeking views from external organizations regarding their capacity requirements. Numbers cited in our references are in the range of several tens of Mbit/s of backhaul capacity per subscriber station.

In response to your question “What is the new standard providing that is not being provided by LTE?”, the requirements addressed demand Ethernet transport, which is not supported by LTE-based networks. Furthermore, we believe that an optimized solution for this problem will operate with far more efficiency than one designed to support full mobility.

Motion#17	To forward the P802.16r PAR ( <a href="#">IEEE 802.16-12-0587-03</a> ) to NesCom		
Moved	Marks		
Second	Law		
Results	(y/n/a)	14	0 / 0
Motion	Passes		

5.10	ME	IEEE 802.21, P802.21 Revision PAR to NesCom	Das	4	03:12 PM
5.11	ME	IEEE 802.21, P802.21.1 PAR to NesCom	Das	4	03:16 PM

Das presented 21-12-0177-00



21-12-0177-00-0000-EC-Closing\_Plenary\_Motion.ppt

IEEE  
802

## IEEE 802.21 Motions in November, 2012 Plenary

DCN: 21-12-0177-00-0000

Title: Report and Request for EC Approval

Date Submitted: November 16, 2012

Presented at EC Closing Plenary, November 16, 2012

Authors or Source(s):

Subir Das, Applied Communication Sciences

**Abstract:** This document contains IEEE P802.21-revision and IEEE P802.21.1 PAR comments summary and motions for EC approval to forward the IEEE P802.21-revision and IEEE P802.21.1 PARs to the IEEE SA NesCom

Nov 2012

Subir Das, Chair IEEE 802.21



21-12-0177-00-0000-EC-Closing\_Plenary\_Motion.ppt

IEEE  
802

## Summary

- Received comments from 802.11 WG
- Comments were addressed and updated versions are circulated on November 14<sup>th</sup> before 5 pm

<https://mentor.ieee.org/802.21/dcn/12/21-12-0169-00-0000-par-comments-response.pptx>

PARs and 5C are accordingly revised and are available at:

<https://mentor.ieee.org/802.21/dcn/12/21-12-0088-03-0000-p802-21-revision-par.pdf>

<https://mentor.ieee.org/802.21/dcn/12/21-12-0089-04-0000-802-21-1-par.pdf>

<https://mentor.ieee.org/802.21/dcn/12/21-12-0126-02-0000-proposed-802-21-1-5c.docx>

Nov 2012

Slide 2

Subir Das, Chair IEEE 802.21

## 802.21.1 Scope (As Submitted on Nov14th)

- 5.2: Original: This standard defines extensible IEEE 802(R) handover and other services (e.g., discovery) that are used in conjunction with the Media Independent Services Framework.
- **New:** This standard defines extensible IEEE 802(R) handover and other services (e.g., discovery) that are used in conjunction with the Media Independent Services Framework **as proposed in 802.21-revision.**

## 802.21.1 Scope (Additional Feedback received)

- 5.2: Submitted: This standard defines extensible IEEE 802(R) handover and other services (e.g., discovery) that are used in conjunction with the Media Independent Services Framework **as proposed in 802.21-revision.**
- **Revised:** This standard defines extensible ~~IEEE 802(R)~~ handover and other services (e.g., discovery) that are used in conjunction with the Media Independent Services Framework **as defined proposed in 802.21-revision IEEE Std 802.21.**

## 802.21.1 New Scope

- 5.2: Original: This standard defines extensible IEEE 802(R) handover and other services (e.g., discovery) that are used in conjunction with the Media Independent Services Framework.
- **New:** This standard defines extensible handover and other services (e.g., discovery) that are used in conjunction with the Media Independent Services Framework as defined in IEEE Std 802.21.

Nov 2012

Slide 5

Subir Das(ACS)

## P802.21 WG Motion

Move to authorize the 802.21 WG Chair to make a motion to the IEEE 802 Executive Committee for approval to forward the IEEE P802.21-revision and IEEE P802.21.1 PARs to the IEEE-SA NesCom

Move: Yoshihiro Ohba  
Second: Anthony Chan

For: 13  
Against: 0  
Abstain: 0

Motion passes

Nov 2012

Slide 6

Subir Das, Chair, IEEE 802.21





## EC Motion

EC Approval to forward the IEEE P802.21-  
revision and IEEE P802.21.1 PARs to the IEEE  
SA NesCom

Move: Subir Das

Second: Bob Heile

For:

Against:

Abstain:

Motion

Nov 2012

Slide 7

Subir Das, Chair IEEE 802.21

Motion#18	EC Approval to forward the IEEE P802.21-revision and IEEE P802.21.1 PARs, as revised in 21-12-0177-00-000s to the IEEE SA NesCom.
Moved	Das
Second	Heile
Results	(y/n/a) 14/0/0
Motion	Passes

5.12	ME	IEEE 802.22, P802.22.1 Revision PAR to NesCom	Mody	4	03:20 PM
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Mody presented 22-12-0105-01-0000, Motion on slide 6 – showed slides 2-5

November 2011

doc.: IEEE 22-12/0105r01

## Motion to Forward the IEEE 802.22.1 Revision PAR to the NESCOM

Submission

Slide 2

Apurva N. Mody, BAE Systems

November 2011

doc.: IEEE 22-12/0105r01

### Motion to Approve the P802.22.1a PAR on Advanced Beaconing

#### Working Group Motions – September 2012 Palm Springs

Move to approve the contents of the document 22-12-83r3

(<https://mentor.ieee.org/802.22/dcn/12/22-12-0083-03-0001-advanced-beaconing-par.docx>)

as the contents for the P802.22.1a amendment PAR form and the contents of the document 22-12-84r3(<https://mentor.ieee.org/802.22/dcn/12/22-12-0084-03-0001-advanced-beaconing-5c.docx>) as 5C for the Advanced Beaconing study group and forward the same to the 802 Executive Committee before October 5<sup>th</sup> to meet the 30 day rule for consideration during the November plenary for the EC approval. Move to upload the PAR to the IEEE SA NESCOM before October 5<sup>th</sup> pending approval from the Sponsor Chair, so that it can be on the agenda for the December meeting of the NESCOM. Allow the Chair to make changes to the PAR and 5C as he sees fit, based on the comments from other EC members or the members of the IEEE SA NESCOM

Move: Changwoo Pyo

Second: Shigenobu Sasaki

Yes: 10

No: 0

Abstain: 0

Motion passes

Submission

## P802.22.1a Comments and Resolutions

- Subsequently 802.22 Working Group received comments from 802.19 and 802.11 Working Groups.
- These comments were addressed and resolved.
- The comments and resolutions can be found in the backups of this presentation as well as the following presentation: 22-12-0102-00.  
<https://mentor.ieee.org/802.22/dcn/12/22-12-0102-00-0001-802-22-responses-to-comments-on-the-802-22-1-par.pptx>
- The contents of the revised PAR and 5C documents can be found in the following documents:
- PAR - 22-12-0083 Rev5 (0001) <https://mentor.ieee.org/802.22/dcn/12/22-12-0083-05-0001-advanced-beaconing-par.docx>
- 5C – 22-12-0084 Rev5 (0001) <https://mentor.ieee.org/802.22/dcn/12/22-12-0084-05-0001-advanced-beaconing-5c.docx>

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Submission

November 2011

doc.: IEEE 22-12/0105r01

## Motion to Approve the P802.22.1 Revision PAR on Advanced Beaconing

### Working Group Motions – November 2012 San Antonio

Move to allow the Chair to submit the Document 22-12-0083 Rev5

(<https://mentor.ieee.org/802.22/dcn/12/22-12-0083-05-0001-advanced-beaconing-par.docx>)

as the IEEE 802.22.1 Revision PAR and Document 22-12-0084 Rev 5

(<https://mentor.ieee.org/802.22/dcn/12/22-12-0084-05-0001-advanced-beaconing-5c.docx>)

as the 5C for the IEEE 802.22.1 Advanced Beaconing Revision for the IEEE 802.22.1 Standard to the EC. The WG approves the comment response as contained in document 22-12-0102 Rev0 (<https://mentor.ieee.org/802.22/dcn/12/22-12-0102-00-0001-802-22-responses-to-comments-on-the-802-22-1-par.pptx>) The 802.22 WG further request the chair to seek approval from the EC to forward this PAR to the IEEE SA NESCOM. 802.22 WG allows the chair to make modifications to the PAR or the 5C as he sees fit to address the comments from the EC or the NESCOM members.

Move: Peter Flynn

Second: Sunghyun Hwang

For: 9

Against: 0

Abstain: 0

### Motion Passes

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Submission

## EC Motion – To Forward P802.22.1 Revision PAR and 5C to NESCOM

Move that the EC approves the P802.22.1 Revision PAR :22-12-0083Rev5 (0001): <https://mentor.ieee.org/802.22/dcn/12/22-12-0083-06-0001-advanced-beaconing-par.docx>

and 5C: 22-12-0084Rev5(0001):

<https://mentor.ieee.org/802.22/dcn/12/22-12-0084-05-0001-advanced-beaconing-5c.docx>

and allows the 802.22 WG to forward the PAR to NESCOM

Move: Apurva Mody

Second: Subir Das

For:

Against:

Abstain:

Motion Passes / Fails

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Submission

Motion#19	Move that the EC approves the P802.22.1 Revision PAR :22-12-0083Rev5 (0001): <a href="https://mentor.ieee.org/802.22/dcn/12/22-12-0083-06-0001-advanced-beaconing-par.docx">https://mentor.ieee.org/802.22/dcn/12/22-12-0083-06-0001-advanced-beaconing-par.docx</a>  and 5C: 22-12-0084Rev5(0001): <a href="https://mentor.ieee.org/802.22/dcn/12/22-12-0084-05-0001-advanced-beaconing-5c.docx">https://mentor.ieee.org/802.22/dcn/12/22-12-0084-05-0001-advanced-beaconing-5c.docx</a> and allows the 802.22 WG to forward the PAR to NESCOM
Moved	Mody
Second	Das
Results	(y/n/a) 14/0/0
Motion	Passes

5.13	ME	IEEE 802.1, P802.1Qca SPB Path Control and Reservation PAR to NesCom	Jeffree	4	03:24 PM
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Jeffree presented 2012-11-exec-motions-802-1-bis.pdf, slides 7-8

## MOTION

- 802.1 requests EC approval to forward the P802.1Qca SPB Path Control and Reservation PAR to NESCOM.
- Proposed: Haddock
- Second: mack-crane
- For\_\_24\_\_Against\_\_0\_\_Abstain\_\_3\_\_
- EC proposed: Jeffree seconded: Thaler

## Supporting material: P802.1Qca

- Draft PAR/5C precirculated to the EC
- No comments received
- No cahnges made to the PAR/5C

Motion#20	802.1 requests EC approval to forward the P802.1Qca SPB Path Control and Reservation PAR to NESCOM.		
Moved	Jeffery		
Second	Thaler		
Results	(y/n/a)	14 / 0 / 0	
Motion	Passes		

5.14	ME	IEEE 802.1, P802.1Qbz Wired and Wireless Bridging PAR to NesCom	Jeffree	4	03:28 PM
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Jeffree presented 2012-11-exec-motions-802-1-bis.pdf, slides 9-10

## MOTION

- 802.1 requests EC approval to forward the P802.1Qbz Wired and Wireless Bridging PAR to NESCOM.
- Proposed: Haddock
- Second: finn
- For\_\_23\_\_Against\_0\_\_Abstain\_\_1\_\_
- EC proposed: Jeffree seconded: Thaler

## Supporting material: P802.1Qbz

- Draft PAR/5C precirculated to the EC
- No comments received
- No cahnges made to the PAR/5C

Motion#21	802.1 requests EC approval to forward the P802.1Qbz Wired and Wireless Bridging PAR to NESCOM.		
Moved	Jeffery		
Second	Thaler		
Results	(y/n/a)	14 / 0 / 0	
Motion	Passes		



5.15	ME	IEEE 802.1, P802 O&A to Sponsor Ballot (Conditional)	Jeffree	4	03:32 PM
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Jeffree presented 2012-11-exec-motions-802-1-bis.pdf, slides 13-14

## MOTION

- 802.1 requests EC conditional approval for forwarding P802 O&A to Sponsor ballot.
- Proposed: Gilb Second: gray
- For: Against: Abstain:
  
- EC proposed: Jeffree Second: Thaler
- For\_\_20\_\_Against\_\_0\_Abstain\_3\_\_

## Supporting material – P802

- Yes 26 76.47%, No 8 23.53%, Abstain 9 20.93%, No. of Voters 68 100.00%, Voters responding 43 63.24%, Number commenting 3, Total # of comments: 69, Technical comments: 21, Editorial comments: 48
- Recirc in Nov/Dec timeframe, comment resolution (if needed) at January interim, with possibly one final recirc in January.
- Comment/resolution database:
- <http://www.ieee802.org/1/files/public/docs2012/802-rev-d1-5-pdis-v03.ods>

Motion#22	802.1 requests EC conditional approval for forwarding P802 O&A to Sponsor ballot.		
Moved	Jeffery		
Second	Thaler		
Results	(y/n/a)	13 / 0 / 0	
Motion	Passes		

5.16	ME	IEEE 802.1 P802.1AEbw D1.1 to RevCom	Jeffree	4	03:36 PM
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Jeffree presented 2012-11-exec-motions-802-1-bis.pdf, slides 16-17.

## MOTION

- 802.1 requests EC approval to submit P802.1AEbw D1.1 to RevCom.
- Proposed: Messenger Second: gray
- For\_\_19\_Against\_0\_\_Abstain\_2\_\_
- EC proposed: Jeffree Second: Thaler
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

[P802.1AEbw D1.0 (MAC Security: Amendment— Extended Packet Numbering) passed Sponsor Ballot (98% approval, 90% response rate), 1 Disapprove vote on Sponsor Ballot Recirculation but all required comments now WITHDRAWN so 100% approval, 90% response.]

## Supporting material: P802.1AEbw

BALLOT OPEN DATE: 04-Nov-2012, BALLOT CLOSE DATE: 14-Nov-2012

DRAFT #: 1.1

COMMENTS: 4

MUST BE SATISFIED COMMENTS: 4

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

65 eligible people in this ballot group.

54 affirmative votes, 1 negative votes with comments, 0 negative votes without comments

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

59 votes received = 90% returned, 6% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.

54 affirmative votes, 1 negative votes with comments, 55 votes = 98% affirmative

The one outstanding Disapprove voter has now withdrawn his 3 comments and therefore the approval rate is now 100%. The 4<sup>th</sup> "must be satisfied" comment was from Michelle Turner saying that the draft meets all editorial requirements.

Motion#23	802.1 requests EC approval to submit P802.1AEbw D1.1 to RevCom.		
Moved	Jeffery		
Second	Thaler		
Results	(y/n/a)	13/0/1	
Motion	Passes		

5.17	ME	IEEE 802.1, P802.1AB-Cor1 to Sponsor Ballot (Conditional)	Jeffree	4	03:40 PM
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Jeffree presented 2012-11-exec-motions-802-1-bis.pdf, slides 3-4

## MOTION

- 802.1 requests EC conditional approval for forwarding P802.1AB-Cor1 to Sponsor ballot.
- Proposed: Parsons
- Second: gray
- For: 31 Against: 0 Abstain: 1
  
- EC proposed: Jeffree Second: Thaler
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

## Supporting material: P802.1AB-Cor1

- WG ballot result: Yes 35 (94.59%) No 2 (5.41%) Abstain 8 (17.78%) No. of Voters 67 Voters responding 45 (67.16%)
- 2 “no” votes, 7 comments. 1 further recirc in Nov/Dec timeframe. Comment resolution (if needed) at January interim.
- Comment disposition:  
[http://www.ieee802.org/1/files/public/Exec\\_files/802-1AB-Cor-1-D1-0-dis.pdf](http://www.ieee802.org/1/files/public/Exec_files/802-1AB-Cor-1-D1-0-dis.pdf)

Motion#24	802.1 requests EC conditional approval for forwarding P802.1AB-Cor1 to Sponsor ballot.		
Moved	Jeffery		
Second	Thaler		
Results	(y/n/a)	14/0/0	
Motion	Passes		

5.18	ME	IEEE 802.1, P802.1AS-Cor1 to Sponsor Ballot (Conditional)	Jeffree	4	03:44 PM
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Jeffree presented 2012-11-exec-motions-802-1-bis.pdf, slides 5-6

## MOTION

- 802.1 requests EC conditional approval for forwarding P802.1AS-Cor1 to Sponsor ballot.
- Proposed: Parsons
- Second: gray
- For: 31 Against: 0 Abstain: 0
  
- EC proposed: Jeffree Second: Thaler
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

## Supporting material: P802.1AS-Cor1

Category	Total	Percentage
Yes	24	100.00%
No	0	0.00%
Abstain	10	29.41%
No. of Voters	67	100.00%
Voters responding	34	50.75%

Motion#25	802.1 requests EC conditional approval for forwarding P802.1AS-Cor1 to Sponsor ballot.		
Moved	Jeffery		
Second	Thaler		
Results	(y/n/a)	14/0/0	
Motion	Passes		

5.19	ME	IEEE 802.3, P802.3bj PAR modification to NesCom	Law	4	03:48 PM
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Law presented 802d3\_1112\_closing\_EC.pdf, slides 2 – 4

## ME: PAR modification request : IEEE P802.3bj 100 Gb/s Operation Over Backplanes and Copper Cables

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### IEEE P802.3bj PAR and Five Criteria

- Title
  - IEEE Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 100 Gb/s Operation Over Backplanes and Copper Cables
- Summary of modification request
  - Expand scope to allow addition of optional Energy-efficient Ethernet (EEE) for 40 Gb/s and 100 Gb/s operation over backplanes and copper cables
- Draft PAR modification request
  - <http://www.ieee802.org/secmail/pdfitzYNQG09j.pdf>
- Draft modified 5C
  - <http://www.ieee802.org/secmail/pdfQVU5pMryjR.pdf>

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## IEEE P802.3bj PAR and Five Criteria

### Motion

The LMSC Executive Committee approves the modified IEEE P802.3bj Five Criteria and forwards the IEEE P802.3bj PAR modification to NesCom

M: Law, S: D'Ambrosia

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

Working Group vote:

Y: 83, N: 0, A: 2

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IEEE 802.3 Closing EC Items

Page 4

Motion#26	The LMSC Executive Committee approves the modified IEEE P802.3bj Five Criteria and forwards the IEEE P802.3bj PAR modification to NesCom.	
Moved	Law	
Second	D'Ambrosia	
Results	(y/n/a)	13/0/0
Motion	Passes	



5.20	ME	IEEE 802.3, P802.3bp PAR to NesCom	Law	4	03:52 PM
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Law presented 802d3\_1112\_closing\_EC.pdf, slides 5-8

## ME: New PAR: IEEE P802.3bp 1 Gb/s Operation over Fewer than Three Twisted Pair Copper Cable

Version 1.1 IEEE 802.3 Closing EC Items Page 5

### IEEE P802.3bp PAR and Five Criteria

- Title
  - Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 1 Gb/s Operation over Fewer than Three Twisted Pair Copper Cable
- Scope of the project
  - The scope of this project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add a point-to-point 1 Gb/s Physical Layer (PHY) specifications and management parameters for operation on fewer than three pairs of twisted copper cables.

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## IEEE P802.3bp PAR and Five Criteria

- Need
  - Adoption of Ethernet into new market areas in automotive, industrial controls and automation, transportation (aircraft, railway and heavy trucks) has generated a need for a 1 Gb/s solution that will operate over fewer than three twisted pair copper cables over a lower-performance channel as well as other applications, such as carbon footprint sensitive applications, that will benefit by a reduction in the number of wire pairs and magnetics. IEEE Std 802.3 does not currently support 1 Gb/s operation over fewer than four pairs of twisted copper cable.
- Draft PAR
  - <http://www.ieee802.org/secmail/pdfm2BsiFZEWa.pdf>
- Draft 5C
  - <http://www.ieee802.org/secmail/pdfxMUCx4UMTx.pdf>

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IEEE 802.3 Closing EC Items

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## IEEE P802.3bp PAR and Five Criteria

### Motion

The LMSC Executive Committee approves the IEEE P802.3bp Five Criteria and forwards the IEEE P802.3bp PAR to NesCom

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

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

Project Authorization Request:	Y: 76,	N: 0,	A: 0
Broad Market Potential criterion:	Y: 77,	N: 0,	A: 5
Compatibility criterion:	Y: 78,	N: 1,	A: 3
Distinct Identity criterion:	Y: 76,	N: 0,	A: 2
Technical Feasibility criterion:	Y: 76,	N: 0,	A: 2
Economic Feasibility criterion:	Y: 75,	N: 0,	A: 3

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IEEE 802.3 Closing EC Items

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Motion#27	The LMSC Executive Committee approves the IEEE P802.3bp Five Criteria and forwards the IEEE P802.3bp PAR to NesCom		
Moved	Law		
Second	D'Ambrosia		
Results	(y/n/a)	14/0/0	
Motion	Passes		

5.21	ME	IEEE 802.3, P802.3.1 to Sponsor Ballot	Law	4	03:56 PM
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Law presented 802d3\_1112\_closing\_EC.pdf, slides 9-11

## ME: IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs Revision forward to Sponsor ballot

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### IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs Revision Working Group ballot results

- 2<sup>nd</sup> Working Group recirculation ballot – draft D1.2
  - Ballot opened 30<sup>th</sup> October, closed 13<sup>th</sup> November 2012
  - 100% approval, five comments received

Comments received: 5*	Initial Draft D1.0			1 <sup>st</sup> Recirculation Draft D1.1			2 <sup>nd</sup> Recirculation Draft D1.2			Req %
	#	%	Status	#	%	Status	#	%	Status	
Abstain	23	28	PASS	23	27	PASS	23	27	PASS	< 30
Disapprove with comment	1	-	-	1	-	-	0	-	-	-
Disapprove without comment	0	-	-	0	-	-	0	-	-	-
Approve	57	98	PASS	60	98	PASS	63	100	PASS	≥ 75
Ballots returned	81	56	PASS	84	58	PASS	86	59	PASS	≥ 50
Voters	145	-	-	145	-	-	145	-	-	-

\* 2 comments were withdrawn

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## IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs Revision forward to Sponsor ballot

### Motion

The LMSC Executive Committee grants approval to  
submit IEEE P802.3.1 (IEEE 802.3.1a) to Sponsor ballot

M: Law, S: D'Ambrosia

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

Working Group vote:

Y: 92, N: 0, A: 8

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IEEE 802.3 Closing EC Items

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Motion#28	The LMSC Executive Committee grants approval to submit IEEE P802.3.1 (IEEE 802.3.1a) to Sponsor ballot.	
Moved	Law	
Second	D'Ambrosia	
Results	(y/n/a)	14/0/0
Motion	Passes	

Break at 3:54

Reconvene at approximately 4pm

6.01	MI	IEEE 802.11, Pre-association Discovery (PAD) SG (3rd Extension)	Kraemer	5	04:00 PM
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Kraemer presented 11-12-1228-005-0000, Slide 15

November 2012

doc.: IEEE 802.11-12/1228r5

## Agenda

### 6.01 802.11 Pre-Association Discovery (PAD)

- **Extend the IEEE 802.11 PAD Study Group.**
- **Moved: Bruce Kraemer**
- **Seconded: Subir Das**
- **In the WG**
  - For: 70, Against: 0, Abstain: 0

Note: this is to allow further work to finalise PAR and 5 Criteria documentation, in case the PAR is not approved by NesCom.

Submission

Slide 15

Adrian Stephens, Intel Corporation

Motion#29	Extend the IEEE 802.11 PAD Study Group
Moved	Kraemer
Second	Das
Results	(y/n/a) 11/0/0
Motion	Passes

6.02	MI	IEEE 802.11, General Link (GLK) SG (2nd Extension)	Kraemer	5	04:05 PM
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Kraemer presented 11-12-1228-005-0000, Slide 15

November 2012 doc.: IEEE 802.11-12/1228r5

**Agenda**

**6.02 802.11 General Link (GLK) SG**

- **Extend the IEEE 802.11 GLK Study Group.**
- **Moved: Bruce Kraemer**
- **Seconded:**
- **In the WG:**
  - 77,0,0

Note: this is to allow further work to finalize the PAR and 5 Criteria documents in the case they are not approved.

Submission Slide 16 Adrian Stephens, Intel Corporation

Motion#30	Extend the IEEE 802.11 GLK Study Group	
Moved	Kraemer	
Second	Rosdahl	
Results	(y/n/a)	11/0/0
Motion	Passes	

6.03	MI*	IEEE 802.15, contingency extension of Ultra Low Power SG (2nd Ext)	Heile	0	04:10 PM
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Approved with approval of agenda.



6.04	MI	IEEE 802.15, Layer2 Routing Study Group (New SG)	Heile	5	04:10 PM
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Heile presented 15-12-0674-00-0000, Slide 9.

November 2011

doc.: IEEE 802.15-12-0674-00-0000

## Layer 2 Routing SG-new

Move that the EC approve the formation  
of a Layer 2 Routing SG in 802.15.

(WG vote 30/0/0)

Moved by Bob Heile

Seconded by Clint Chaplin

Submission

Bob Heile, ZigBee Alliance

Motion#31	Move that the EC approve the formation of a Layer 2 Routing SG in 802.15.		
Moved	Heile		
Second	Chaplin		
Results	(y/n/a)	14/0/0	
Motion	Passes		

6.05	II*	IEEE 802.16, IEEE 802.16-12-0680-00-03R0 (identical to 802.18-12-0116-01) for review as an IEEE 802.16 communication under OM 8.2.2 (Sponsor subgroup communications with government bodies)	Marks	0	04:15 PM
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Approved with approval of agenda.

6.06	MI	IEEE 802.16, OmniRAN Study Group (New EC Study Group)	Marks	10	04:15 PM
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Marks presented 16-12-0696-00.

## **Proposal for an IEEE 802 EC OmniRAN Study Group**

15 November 2012

Harry Bims (HetNet Study Group Chair)

1

### “OmniRAN” Terminology

- OMNI: “Open Mobile Network Interface”
- IEEE “Area Networks”, such as:
  - LAN: Local Area Network
  - MAN: Metropolitan Area Network
  - PAN: Personal Area Network
  - RAN: Regional Area Network
  - etc.
- OmniRAN:
  - “Omni-Range Area Network”, based on OMNI

2

## OmniRAN History

- Mar 16: IEEE 802 initiated 802.16 HetNet Study Group (SG)
- May 14-17: First HetNet SG session, resulting in
  - Call for Contributions on OMNI standard
- July 16: IEEE 802 OmniRAN Tutorial
- July 16-19: Second HetNet SG session
- July 20: HetNet SG renewal
- July 25: IEEE 802 / IETF coordination meeting (Milpitas)
- Sep 17-21: Third HetNet SG session
- Nov 12-15: Fourth HetNet SG session
  - Two contributions from non-participants expressing interest and need
    - “The use of OMNIRAN can open the door to the use of more IEEE 802 technologies as part of the operator’s RAN in a managed way” (“RAN”: radio access network)

3

## July 16 OmniRAN Tutorial

- Audience: IEEE 802 Plenary, San Diego
- Title: Heterogeneous Networking among the IEEE 802 Family – Proposal for an Open Mobile Network Interface (OMNI) Standard
  - Roger Marks (Consensii LLC; 802.16 Member and Chair)
  - Harry Bims (Bims Laboratories, Inc.; 802.16 Member & HetNet SG Chair)
  - Max Riegel (Nokia Siemens Networks; 802.11 Member)
  - Charlie Perkins (Huawei; 802.21 Member)
  - Juan Carlos Zuniga (InterDigital; former 802.21 Vice Chair)
- Abstract: Proposals arising in the IEEE 802.16 Study Group on Heterogeneous Networks (HetNet Study Group) have suggested the development of a new IEEE 802 Open Mobile Network Interface (OMNI) standard to specify a common method of heterogeneous networking among all (or at least many) IEEE 802 access technologies for mobile broadband IP services. This tutorial highlights discussions within the Study Group and current plans, particularly in the context of related activities and specifications from other organizations, including IETF and the WiMAX Forum. The intent is to inform IEEE 802 participants about the current thoughts, directions and evolving plans, including considerations about the best home for eventual standardization work, and to encourage additional perspectives.

4

## OmniRAN SG Schedule Expectations

- 2012-11-16: approval of EC SG
  - Issue call for contributions and external SDO communications
- 2013-01-14 through 2013-01-18: first EC SG meeting
  - Vancouver
- 2013-03-18 through 2013-03-22: second EC SG meeting
  - Orlando
  - Presentation to IETF groups at meeting the prior week
  - Expectation for SG renewal request
- 2013-05-13 through 2013-05-17: third EC SG meeting
  - Waikoloa
  - PAR drafting and preparation for submission to EC
- 2013-07-15 through 2013-07-19: fourth EC SG meeting
  - Geneva
  - Expectation of EC approval of draft PAR

5

## Call for Contributions Content

- On 15 November 2012, the IEEE 802 Executive Committee chartered the OmniRAN Executive Committee Study Group (SG) to study an Open Mobile Network Interface for Omni-Range Area Networks. The SG is chartered through 22 March 2013, with an expectation of renewal through 19 July 2013. The will meet the week of 14 January 2013 in Vancouver, Canada and the week of 18 March in Orlando, USA.
- Further details are available in documentation at the SG web site <link>.
- The SG hereby solicits input documentation to progress the development of the work. The Study Group particularly seeks inputs on the following topics:
  - (1) OmniRAN use cases.
  - (2) Proposals regarding the OmniRAN architecture as it might be developed within IEEE 802.
  - (3) Proposals regarding the specific functionality to be provided by the OmniRAN, with prioritization expectations for the first project.
- Instructions for document submission

6

## IEEE 802 EC Motion

- To initiate the IEEE 802 EC OmniRAN Study Group, with Max Riegel as Chair
- Motion: Marks
- Second:

3

### Initial External SDO Communications Content

- To: IETF, 3GPP, Broadband Forum, CableLabs, WiMAX Forum, Wi-Fi Alliance, Wireless Broadband Alliance, and others as appropriate
- Content:
  - Notification of the initiation of the new SG
  - Call attention to EC SG document created from IEEE 802.16-12-0670R1
  - Call attention to the Call for Contributions

7

Motion#32	To initiate the IEEE 802 EC OmniRAN Study Group..
Moved	Marks
Second	D'Ambrosia
Results	(y/n/a) 13/0/1`
Motion	Passes

Chair appointed Max Riegel to be EC Study Group Chair, based on Marks / SG Recommendation.

Motion#33	To approve the appointment by the 802 EC Chair of Max Riegel as EC Study Group Chair..	
Moved	Marks	
Second	Kraemer	
Results	(y/n/a) `	14/0/0
Motion	Passes	

The approval of this appointment does not confer EC Membership.



6.07	MI	802.24, Smart Grid Group of Standards, Endorsement of 24-12-0033-01	Gilb	10	04:25 PM
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Gilb presented 24-12-0034-00, Slide #4,

November 2012

ec-12-0072-00-00EC

## Smart Grid package of stanards

- This motion is being proposed using the process for public statements for standards in the IEEE 802 Policies & Procedures (subclause 9.3)
- Moved: The IEEE 802 EC endorses document 24-12-0033-01 as a group of standards for Smart Grid network applications to be forwarded to IEEE-SA for posting on the appropriate IEEE Smart Grid web site, with editorial corrections as necessary.
- TAG Vote 20/0/0 (Y/N/A)
- Moved by James Gilb
- Second by

802 EC Rules

James Gilb (Tensorcom)

Motion#34	Moved: The IEEE 802 EC endorses document 24-12-0033-01 as a group of standards for Smart Grid network applications to be forwarded to IEEE-SA for posting on the appropriate IEEE Smart Grid web site, with editorial corrections as necessary.		
Moved	Gilb		
Second	D'Ambrosia		
Results	(y/n/a)	14/0/0	
Motion	Passes		

6.08	MI*	IEEE 802.1, 802.11 Bridging Study Group (1st Extension)	Jeffree	0	04:35 PM
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Approved with approval of agenda.

6.09	MI	IEEE 802.3, Reduced Twisted Pair Gigabit Ethernet Study Group (2nd Extension)	Law	5	04:35 PM
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Law presented 802d3\_1112\_closing\_EC.pdf Slides 12-13

# MI: IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group (2nd extension)

Version 1.1

IEEE 802.3 Closing EC Items

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## IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet PHY Study Group

### Motion

The LMSC Executive Committee grants an extension to the IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet PHY Study Group

M: Law, S: D'Ambrosia

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

Working Group vote:

Y: 82, N: 0, A: 0

Version 1.1

IEEE 802.3 Closing EC Items

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Motion#35	The LMSC Executive Committee grants an extension to the IEEE 802.3 Next Generation BASE-T Study Group
Moved	Law
Second	D'Ambrosia
Results	(y/n/a) 14/0/0
Motion	Passes

6.10	MI*	IEEE 802.3, Next Generation BASE-T Study Group (1st extension)	Law	0	04:40 PM
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Approved with approval of agenda.

6.11	MI	IEEE 802.3, Distinguished minimum latency traffic in a converged traffic environment Study Group (new SG)	Law	5	04:40 PM
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Law presented 802d3\_1112\_closing\_EC.pdf, Slides 16-17

## MI: IEEE 802.3 Distinguished minimum latency traffic in a converged traffic environment Study Group

Version 1.1 IEEE 802.3 Closing EC Items Page 16

### IEEE 802.3 Distinguished minimum latency traffic in a converged traffic environment Study Group

#### Motion

The LMSC Executive Committee grants approval for the formation of the IEEE 802.3 Distinguished minimum latency traffic in a converged traffic environment Study Group within IEEE 802.3

M: Law, S: D'Ambrosia

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

82 CFI attendees, 23 interested in participating

Working Group vote:

Y: 41 N: 6 A: 11

Version 1.1 IEEE 802.3 Closing EC Items Page 17

Motion#36	The LMSC Executive Committee grants approval for the formation of the IEEE 802.3 Distinguished minimum latency traffic in a converged traffic environment Study Group within IEEE 802.3
Moved	Law
Second	D'Ambrosia
Results	(y/n/a) 14/0/0

<b>7.00</b>		<b>LMSC Liaisons and External Interface</b>			<b>04:45 PM</b>
<b>7.01</b>	<b>ME</b>	<b>IEEE 802.1, IEEE Std 802.1X and IEEE Std 802.1AE to ISO/IEC for approval as International Standards under the PSDO agreement</b>	<b>Jeffree</b>	<b>5</b>	<b>04:45 PM</b>

Delay in locating slides for Item 7.01. No Objection to hearing Item 7.02, while Slides for Item 7.01 located.

<b>7.02</b>	<b>ME</b>	<b>IEEE-SA - ETSI MoU</b>	<b>Law / All</b>	<b>5</b>	<b>04:50 PM</b>
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Law presented [http://www.ieee802.org/3/minutes/nov12/1112\\_802\\_3\\_opening\\_plenary.pdf#Page=27](http://www.ieee802.org/3/minutes/nov12/1112_802_3_opening_plenary.pdf#Page=27) slides 27-32

## IEEE-SA –European Telecommunication Standards Institute (ETSI) Memorandum of understanding renewal

David Law, HP  
dlaw@hp.com

Moirra Patterson, IEEE-SA  
m.patterson@ieee.org



## IEEE-SA - ETSI MOU

- IEEE-SA and ETSI are in the process of renewing and updating their MOU, aiming for finalization in mid-November (previous MOUs signed in 1999, and updated in 2009)

### Benefits

- Map areas of mutual interest, where WGs express interest in closer cooperation. This provides IEEE WGs some benefits they would not otherwise have:
  - Framework to request that drafts be shared
  - Framework to send an observer to ETSI groups

## Document sharing between mapped technical groups

- ETSI TC can request documents, including working documents, standards drafts, workplans, roadmaps, and future plans
- IEEE WG can request documents, including working documents, standards drafts, workplans, roadmaps, and future plans
- This exchange is **conditional on the owning TC/WG's agreement** to provide the requested documents
- AND The dissemination by one party of the documents received from the other party will be **strictly limited to the participants in the IEEE WG and members of the ETSI Working Group**, and solely for the **purpose of technical and/or promotional activities** relating to the party's work programme.

## Observers or non-voting participants between mapped technical groups

- To the extent permitted by the relevant party's organizational documents, and upon mutual consent, attendance at the other technical group's meeting may be accepted, as follows:
- When the agenda contains items of mutual interest, the IEEE WG may nominate an Observer to attend the ETSI TC meeting.
- When the agenda contains items of mutual interest, the ETSI TC may nominate a Non-Voting Participant to attend the IEEE WG meeting.
- These Observers/Non-Voting Participants shall be entitled to participate fully in discussions on relevant work items, and may submit written contributions for information only, but shall have no voting rights, unless such rights are obtained under the relevant party's organizational documents. This MOU does not allow for these contributions to be incorporated; incorporation would require prior written consent.
- They should inform in writing the Chairperson of the ETSI Technical Body or the IEEE Working Group in which they are participating if there are overlapping work areas.



# Proposed Mapping

IEEE	ETSI Technical Committee (TC) and/or ETSI Project	Areas
IEEE 802.11 WG and IEEE 802.16 WG	TC BRAN (Broadband Radio Access Networks)	Harmonization of EN 301 893 (5 GHz RLAN) with IEEE 802.11; Harmonization of HiperMAN specifications with IEEE 802.16.
IEEE 802.11 WG and IEEE 1609 WAVE WG	TC ITS (Intelligent Transport Systems)	Coordination of the standardization activities for wireless communications for vehicular and pedestrian safety for global applicability in Intelligent Transport Systems.
IEEE WGs: <ul style="list-style-type: none"> <li>802.3 (Ethernet WG)</li> <li>802.11 (Wireless LAN WG)</li> <li>802.15 (Wireless Personal Area Network (WPAN) WG)</li> <li>802.22 (Wireless Regional Area Network (WRAN) WG)</li> <li>P1905</li> </ul>	TC ATTM (Access, Terminals, Transmission and Multiplexing)	Coordinate standardization work in the following topics: <ul style="list-style-type: none"> <li>802.3bg 40G Serial SMF</li> <li>802.3bj 100G backplane &amp; twinax</li> <li>Next gen 100G optical PHYs</li> <li>Ethernet Bandwidth Assessment</li> <li>10GBASE-SR to support OM4 fibre</li> <li>802.3 EPOC</li> <li>802.11r, 11u, 11ac 1x1 through 3x3</li> <li>very low power wifi</li> <li>any wifi authentication materials</li> <li>self organizing networks hetnets</li> <li>bluetooth 4.0</li> <li>hotspot 2.0</li> <li>zigbee 802.15</li> <li>whitespace 802.22</li> <li>powerline mesh P1905 inductive coupling</li> <li>nfc</li> </ul>
IEEE 802.16's Machine-to-Machine (M2M) Task Group	TC M2M	Exchange of information on WANs and MANs (wireless networks) standardization work that could be used in IoT connectivity
IEEE 802.11 (Wireless Local Area Networks (WLAN)) IEEE 802.15 (Wireless Personal Area Networks (WPANs)) Working Groups	TC ERM (EMC and Radio Spectrum Matters) Technical Groups 28 (Generic SRDs) and 30 (ERM Wireless Medical Devices)	Exchange of information on standardization activities in the areas of smart metering and medical devices.

## Action

- Each IEEE WG to indicate its interest in being mapped as listed, under the conditions provided in this presentation.
- If modifications are sought, please inform IEEE-SA staff.

## ME: IEEE-SA – ETSI MoU

Version 1.0

Page 1

### IEEE-SA – ETSI (European Telecommunication Standards Institute) MoU

#### Overview

[http://www.ieee802.org/3/minutes/nov12/1112\\_802\\_3\\_opening\\_plenary.pdf#Page=27](http://www.ieee802.org/3/minutes/nov12/1112_802_3_opening_plenary.pdf#Page=27)

#### Motion

The LMSC Executive Committee approves the following Working Groups to be included in the IEEE-SA – ETSI MOU Technical Cooperation Agreement annex

IEEE 802.3 [ WG vote: Y:134 N:0 A:4 ]

IEEE 802.11 [ WG vote: Y:46 N:0 A:1 ]

IEEE 802.15

IEEE 802.22

M: Law, S: Kraemer

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

Version 1.0

Page 2

Motion#37	The LMSC Executive Committee approves the following Working Groups to be included in the IEEE-SA – ETSI MOU Technical Cooperation Agreement annex	
	IEEE 802.3	
	IEEE 802.11	
	IEEE 802.15	
	IEEE 802.16	
	IEEE 802.22	
Moved	Law	
Second	Kraemer	
Results	(y/n/a)	13/0/0

IEEE 802.24 should review this as an option.

<b>7.01</b>	<b>ME</b>	<b>IEEE 802.1, IEEE Std 802.1X and IEEE Std 802.1AE to ISO/IEC for approval as International Standards under the PSDO agreement</b>	<b>Jeffree</b>	<b>5</b>	<b>04:45 PM</b>
-------------	-----------	---	----------------	----------	-----------------

Jeffree showed slide 15 of 2012-11-exec-motions-802-1-bis.pdf

## MOTION

- 802.1 requests EC approval to submit IEEE Std 802.1X and IEEE Std 802.1AE to ISO/IEC for approval as International Standards under the PSDO agreement.
- Proposed: Messenger Second: gray
- For\_\_22\_Against\_0\_\_Abstain\_\_1\_\_
- EC proposed: Jeffree Second: Thaler
- For\_\_\_\_Against\_\_\_\_Abstain\_\_\_\_

Discussion: There would be a need

Action Item: IEEE 802 JTC1 Ad Hoc refresh the document exchange list between ISO and IEEE 802

Submitting a draft for comment will not require EC approval, only submitting a published standard for adoption will require EC approval.

It has been requested that the decision to forward standards is not limited to 802 EC Face-to-Face meetings.

IEEE 802 Overview and Architecture points to the RAC for Registry

Motion#38	802.1 requests EC approval to submit IEEE Std 802.1X and IEEE Std 802.1AE to ISO/IEC for approval as International Standards under the PSDO agreement.		
Moved	Jeffree		
Second	Thaler		
Results	(y/n/a)	14/0/0	
Motion	Passes		

<b>7.03</b>	<b>ME*</b>	<b>IEEE 802.11, Press Release - IEEE 802.11ad (Very High Throughput - 60 GHz)</b>	<b>Kraemer</b>	<b>5</b>	<b>04:55 PM</b>
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Approved with approval of agenda.

7.04	II	IEEE 802.11 submission to D. Romascanu (IETF/IEEE 802 areas of shared interest)	Kraemer	5	05:00 PM
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Kraemer presented 11-12-1228-05-0000, Slides 21-22

November 2012 doc.: IEEE 802.11-12/1228r5

Agenda

7.04 **(For Information)**

**WG Motion**

- Approve that the 802.11 chair to send a request to Mr. D. Romascanu to add the “802.11 Mesh and TRILL” topic to the “list of areas of shared interest between IETF and IEEE 802”.
- Moved: Donald Eastlake 3<sup>rd</sup>
- Seconded: Dorothy Stanley
- WG Result: 44,0,4 - passes

Submission Slide 21 Adrian Stephens, Intel Corporation

November 2012 doc.: IEEE 802.11-12/1228r5

**Text of Entry**

**XX. Path Selection: 802.11 Mesh, TRILL, 802.1**

**XX.1 Description**  
TBD

**XX.2. Relevant Documents**  
<https://mentor.ieee.org/802.11/dcn/12/11-12-0621-05-0000-alternative-mesh-path-selection.pptx>  
 - others

**XX.3. Owners**  
(Bruce Kraemer, Ralph Droms ?)

**XX.4. Action Items**

Submission Slide 22 Adrian Stephens, Intel Corporation

802.11 will update current document 621 to R5 prior to submission to the IETF. It is unknown if 802.1 will have any input for this file.

7.05	II	IEEE 802.11 submission to IEEE-SA Registration Authority	Kraemer	5	05:05 PM
------	----	--	---------	---	----------


Kraemer presented 11-12-1228-05-0000, Slide 23

November 2012
doc.: IEEE 802.11-12/1228r5

Agenda  
7.05

**(For Information)**  
**WG Motion**

- **Approve document 11-12/1420r0 for submittal to IEEE-SA Registration Authority.**
- **Moved: Mark Hamilton**
- **Seconded: Stephen McCann**
- **WG Result: 38,0,1 - passes**



Microsoft  
PowerPoint Presentation

Information should be conferred to the RAC via Geoff Thompson and Clint Chaplin



7.06	II	IEEE 802.11 liaison to the Wi-Fi Alliance (WFA)	Kraemer	5	05:10 PM
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Kraemer presented 11-12-1228-05-0000, Slide 24

November 2012
doc.: IEEE 802.11-12/1228r5

**Agenda**  
7.06

**(For Information)**  
**WG Motion**

- Request the IEEE 802.11 WG chair to liaise document "11-12-1389-00-0000-liaison-to-wfa-regarding-11aq-PAR.doc" to the Wi-Fi Alliance, subject to approval of the IEEE 802.11aq PAR by IEEE-SA.
- Moved: Stephen McCann
- Second: Richard Kennedy
- WG Result: 46,0,0 - passes
- PAD Result: Moved: Stuart Kerry, Second: Dwight Smith, 30/0/0



Microsoft Word  
7 - 2003 Document

Submission
Slide 24
Adrian Stephens, Intel Corporation

7.07	ME*	IEEE 802.18, To Approve 18-12-0117-01 "Draft request to FCC for a Public Notice requesting comments to Progeny M-LMS testing"	Lynch	0	05:15 PM
7.08	ME*	IEEE 802.11-12-1389-00-0000-liaison-to-wfa-regarding-11aq-PAR.doc	Covered in 6.05	0	05:15 PM
7.09	ME*	IEEE 802.18, To approve IEEE 802.18-12-0118-01 "Draft LS to WP 5D: Comments on Working Doc toward a PDNR on the use of IMT for broadband PPDR" under OM subclause 8.2.1	Lynch	0	05:15 PM
7.10	ME*	IEEE 802.18, 18-12-0114-02 "Draft comments to FCC Wireless Microphone Refresh Proceeding"	Lynch	0	05:15 PM

Approved with approval of agenda.

7.11	ME	IEEE 802.24, Press Release - IEEE 802 Wireless Standards / Smart Grids	Gilb	2	05:15 PM
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Gilb presented 24-12-0034, Slide 5.

November 2012

ec-12-0072-00-00EC

# 802.24 formation press release

- Moved The EC supports the press release titled "IEEE LOOKS TO THE FUTURE OF SMART GRID COMMUNICATIONS WITH 802.24 SMART GRID TECHNICAL ADVISORY GROUP", with editorial changes as deemed necessary.
- Document title is "IEEE\_802ExecCommittee\_Draft\_v5\_111512.doc"
- Moved by James Gilb
- Second by

802 EC Rules

James Gilb (Tensorcom)

Referenced press draft shown on next pages.

Motion#39	Moved The EC supports the press release titled "IEEE LOOKS TO THE FUTURE OF SMART GRID COMMUNICATIONS WITH 802.24 SMART GRID TECHNICAL ADVISORY GROUP", with editorial changes as deemed necessary.
Moved	Gilb
Second	D'Ambrosia
Results	(y/n/a) 13/0/1
Motion	Motion Passes

**CONFIDENTIAL – NOT FOR IMMEDIATE RELEASE**  
**Draft v5.0, November 15, 2012**

Contact:

Shuang Yu, Senior Manager, Solutions Marketing  
+1 732 981 3424; shuang.yu@ieee.org

**IEEE LOOKS TO THE FUTURE OF SMART GRID COMMUNICATIONS WITH  
802.24 SMART GRID TECHNICAL ADVISORY GROUP**

*Newly formed collective to act as liaison for other key stakeholders, aid in addressing challenges relating to use of IEEE 802 standards in smart grid applications*

PISCATAWAY, N.J., USA, [DATE] – [IEEE](#), the world's largest professional organization dedicated to advancing technology for humanity, today announced the formation of the [IEEE 802.24 Smart Grid Technical Advisory Group](#) (TAG). The newly launched entity is a collaborative umbrella organization that works with multiple IEEE 802 Working Groups (WGs), and will liaise with key smart grid ecosystem stakeholders, such as regulatory agencies, other standards development bodies, and industry organizations. The IEEE 802.24 Smart Grid TAG's goal is to help resolve questions and challenges regarding the use of IEEE 802 standards in smart grid applications.

"IEEE 802 networking standards have achieved near-ubiquitous adoption – they're essential underlying technologies found in almost every computing device made today, whether it's a desktop computer, laptop, tablet, or smartphone. These standards are an integral part of the connected world," said Bill Ash, strategic program manager, IEEE Standards Association (IEEE-SA). "Now with the smart grid's continued evolution, IEEE 802 standards will also play a fundamental role in critical applications like home automation, advanced metering infrastructures, renewables integration, and demand response. The IEEE 802.24 Smart Grid TAG will serve as the ultimate resource for practical information and insight about the use of IEEE 802 standards in the smart grid."

Among the IEEE 802 WGs taking part in the IEEE 802.24 Smart Grid TAG are the [802.1 High Level Interface WG](#), [802.3 Ethernet WG](#), [802.11 Wireless LAN WG](#), [802.15 Wireless Personal Area Network \(WPAN\) WG](#), [802.16 Broadband Wireless Access WG](#), [802.16 Radio Regulatory TAG](#), [802.21 Media Independent Handover Services WG](#), and [802.22 Wireless Regional Area Networks \(WRAN\) WG](#). As part of its charter, the group

will become an essential link and first point of contact for an array of smart grid constituencies, including policymakers and regulatory bodies, Standards Development Organizations (SDOs), and trade associations, as well as an internal resource for other IEEE societies, groups, and committees. Primary responsibilities and activities falling under the IEEE 802.24 Smart Grid TAG's purview include facilitating coordination and collaboration among IEEE 802 groups, and providing conference and event speakers able to address the use of IEEE 802 standards in smart grid applications. Additionally, participants will cooperatively develop a range of materials such as white papers, guidelines, and presentations, the first of which will be available in November 2012.

"As foundational elements working at the lower layers to connect devices together, IEEE 802 standards are applicable in a wide variety of environments. As a result, they are a natural fit within today's nascent smart grid ecosystem," said James Glib, chair, 802.24 Smart Grid TAG. "IEEE 802 holds nearly unlimited potential for relevance within smart grid applications. By providing needed guidance, expertise, and other resources relating to these standards, the IEEE 802.24 Smart Grid TAG will help ensure continued innovation and advancement of the smart grid."

For more information on the IEEE 802.24 Smart Grid TAG, please visit [www.ieee802.org/24](http://www.ieee802.org/24). To learn more about IEEE-SA, visit us on Facebook at <http://www.facebook.com/ieeesa>, follow us on Twitter at <http://www.twitter.com/ieeesa>, or connect with us on LinkedIn at <http://www.linkedin.com/groups?gid=1791118> or at the Standards Insight Blog at <http://www.standardsinsight.com>.

#### **About the IEEE Standards Association**

The IEEE Standards Association, a globally recognized standards-setting body within IEEE, develops consensus standards through an open process that engages industry and brings together a broad stakeholder community. IEEE standards set specifications and best practices based on current scientific and technological knowledge. The IEEE-SA has a portfolio of over 900 active standards and more than 500 standards under development. For more information visit <http://standards.ieee.org/>.

#### **About IEEE**

IEEE, a large, global technical professional organization is dedicated to advancing technology for the benefit of humanity. Through its highly cited publications, conferences, technology standards, and professional and educational activities,

IEEE is the trusted voice on a wide variety of areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics. Learn more at <http://www.ieee.org>.

###

7.12	ME	IEEE 802.24, Press Release - IEEE 802.24 Smart Grid Formation	Gilb	2	05:17 PM
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Gilb presented 24-12-0034, Slide 6

November 2012

ec-12-0072-00-00EC

## New standards press release

- The EC supports the press release titled "NEW IEEE STANDARDS FOR WIRELESS DATA NETWORKING DESIGNED TO HELP UTILITIES MODERNIZE COMMUNICATIONS INFRASTRUCTURE FOR SMART GRIDS", with editorial changes as deemed necessary.
- Document name is "IEEE-SA press release 802 standards v2.3-11-14-12.docx"
- Moved by James Gilb
- Second by

802 EC Rules

James Gilb (Tensorcom)

Press release draft shown on following pages. (File has been updated to v2.4-11-14-12)

Motion#40	Move to The EC supports the press release titled "NEW IEEE STANDARDS FOR WIRELESS DATA NETWORKING DESIGNED TO HELP UTILITIES MODERNIZE COMMUNICATIONS INFRASTRUCTURE FOR SMART GRIDS", with editorial changes as deemed necessary.
Moved	Gilb
Second	D'Ambrosia
Results	(y/n/a) 13/0/1
Motion	Motion Passes



**NOT FOR IMMEDIATE RELEASE**  
**DRAFT version 2.3– 11-14-12**

Contact:  
Shuang Yu, Senior Manager, Solutions Marketing  
+1 732 981 3424; shuang.yu@ieee.org

**NEW IEEE STANDARDS FOR WIRELESS DATA NETWORKING DESIGNED TO HELP  
UTILITIES MODERNIZE COMMUNICATIONS INFRASTRUCTURE FOR SMART GRIDS**

*Four New Updates to IEEE 802(R) Family of Standards Can Be Used to Implement  
Advanced Metering Infrastructure and Ensure Communications Network Reliability*

**PISCATAWAY, N.J., USA, XX Month 2012** – IEEE, the world's largest professional organization advancing technology for humanity, today announced updates to four wireless communications technologies in the IEEE 802® family of standards as well as a new IEEE 802 standards-development project. The new standards support the global utility industry's needs for smart grid data communications infrastructure and represent some of the most recent efforts applicable to smart grids to come from the IEEE Standards Association (IEEE-SA), which has a portfolio of 100 standards and standards in development pertaining to the smart grid industry.

"Utilities can use the IEEE 802 family of broadband wireless communications standards to modernize their communications and networking infrastructure for advanced metering and other smart grid applications," said James Gilb, chair of the IEEE 802.24™ Technical Advisory Group (TAG). "These new updates to the IEEE 802 standards will enable utilities around the world to build the carrier-grade, high-capacity networks they will need to connect the millions of grid components and end-use devices that will operate on smart grids."

The new IEEE 802 standards include the following:

- IEEE 802.15.4g™-2012 – IEEE Standard for Local and Metropolitan Area Networks – Part 15.4: Low-Rate Wireless Personal Area Networks (LR-WPANs) Amendment 3: Physical Layer (PHY) Specifications for Low-Data-Rate, Wireless, Smart Metering Utility Networks – is a global standard that provides carrier-grade wireless communications connectivity for very large-scale smart metering applications and advanced metering infrastructure used in smart grids. It supports geographically

diverse networks with minimal infrastructure that can potentially connect millions of end points. The new standard, an amendment to IEEE 802.15.4™, offers the communications range, robustness and coexistence characteristics required for these types of applications and deployments that fit the general objectives of IEEE 802.15 but were not covered by the existing standard. IEEE 802.15.4g-2012 is available for purchase at the [IEEE Standards Store](#).

- IEEE 802.16™-2012 – IEEE Standard for Air Interface for Broadband Wireless Access Systems. The standard supports worldwide deployment of innovative, cost-effective, interoperable, and multi-vendor broadband wireless access (BWA) products, with Ethernet as well as IP interfaces, that utilities can use for machine-to-machine smart grid applications. The standard specifies the air interface, including the medium access control and physical layers (MAC and PHY), of combined fixed and mobile point-to-multipoint BWA systems. The standard updates the WirelessMAN-OFDMA air interface designated by the ITU as IMT-2000. Further enhancement relevant to Smart Grid applications are provided in IEEE Std 802.16p-2012, an amendment providing “Enhancements to Support Machine-to-Machine Applications.” Both IEEE 802.16-2012 and IEEE 802.16p-2012 are available for purchase at the [IEEE Standards Store](#).
- IEEE 802.16.1™-2012 – IEEE Standard for WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems. The standard provides an enhanced air interface and improved capacity for metropolitan-area networks that utilities can use for smart grid machine-to-machine communications as well as mobile voice-based applications, with support for Ethernet as well as IP interfaces. IEEE 802.16.1-2012 is a new standalone version of the technology first specified in IEEE 802.16m™-2011 and designated by the ITU as IMT-Advanced. Further enhancement relevant to Smart Grid applications are provided in IEEE Std 802.16.1b-2012, an amendment providing “Enhancements to Support Machine-to-Machine Applications.” The new standard is available for purchase at the [IEEE Standards Store](#).
- IEEE 802.22.2™-2012 – IEEE Standard on the Recommended Practice for Installation and Deployment of IEEE 802.22™-2011 Wireless Regional Area Networks (WRAN) was recently published. The Emerging Technology Award winning IEEE 802.22 systems will provide broadband access to wide regional areas around



the world and bring reliable and secure high-speed communications to under-served and un-served rural communities, which are estimated to include nearly half of the world's population. IEEE 802.22-2011 is the first IEEE 802 Standard for operation in the Television (TV) Whitespaces, defined as the available or un-occupied TV channels. It is also the first IEEE Standard that focuses on broadband connectivity and smart grid applications in rural areas where most vacant TV channels can be found. The new standard is available for purchase at the [IEEE Standards Store](http://standards.ieee.org)

In addition, the IEEE-SA has approved development of a new standard that will enable the handover of groups of wireless data connections between different types of networks in a heterogeneous network. Utilities will be able to use the standard to allow large groups of devices to handover from one network to another to ensure continuous connectivity and service reliability if a part of the network loses connectivity. IEEE P802.21d™ – Standard for Local and Metropolitan Area Networks—Part 21: Media Independent Handover Services Amendment: Multicast Group Management— is intended to amend IEEE 802.21™-2008 by adding support for simultaneous handovers of multiple users. Information about IEEE P802.21d is available at <http://standards.ieee.org/develop/project/802.21d.html>.

To learn more about IEEE-SA, visit us on Facebook at <http://www.facebook.com/ieeesa>, follow us on Twitter at <http://www.twitter.com/ieeesa>, connect with us on LinkedIn at <http://www.linkedin.com/groups?gid=1791118> or on the Standards Insight Blog at <http://www.standardsinsight.com>.

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###

7.13	ME	IEEE 802.24, Approval of SIF contributions to SGIP (24-12-0011-03, 24-12-0029-00)	Gilb	5	05:19 PM
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Gilb presented 24-12-0034, Slides 7-9

November 2012

ec-12-0072-00-00EC

## OM rules

- 8.1.1 IEEE 802 LMSC communications with other standards bodies
  - a) Communications from the IEEE 802 LMSC to external standards bodies shall not be released without prior approval by the Sponsor. Such approval indicates that the communication represents the position of IEEE 802 LMSC.
  - b) All communications by IEEE 802 LMSC with external standards bodies shall be issued by the Sponsor Chair and shall be copied to the Sponsor.

802 EC Rules

James Gilb (Tensorcom)

November 2012

ec-12-0072-00-00EC

## OM rules (cont.)

- 8.2.1 IEEE 802 LMSC communications with government bodies
  - a) IEEE 802 LMSC communications to government bodies shall not be released without prior approval by 2/3 of the Sponsor.
  - b) All IEEE 802 LMSC communications to government bodies shall be issued by the Sponsor Chair as the view of IEEE 802 LMSC (stated in the first paragraph of the statement). Such communications shall be copied to the Sponsor and the IEEE-SA Standards Board Secretary and shall be posted on the IEEE 802 LMSC web site. The IEEE 802 LMSC web site shall state that all such position statements shall expire five years after issue.

802 EC Rules

James Gilb (Tensorcom)

## SIF contribution to SGIP

- This motion is made under the IEEE 802 Operations Manual procedure for IEEE 802 LMSC communications with other standards bodies (8.1.1).
- The IEEE 802 EC approves sending documents 24-12-0011-03 and 24-12-0029-00 to SGIP as SIF contributions from IEEE 802. The documents will be forwarded to Bill Ash to be transmitted to the appropriate individual in SGIP.
- TAG vote
  - 24-12-0011-03: 14/0/0 (Y/N/A)
  - 24-12-0029-00: 14/0/0 (Y/N/A)
- Moved by James Gilb
- Second by

802 EC Rules

James Gilb (Tensorcom)

Debate as to whether the communication is with a government agency.

Motion#41	The IEEE 802 EC approves sending documents 24-12-0011-03 and 24-12-0029-00 to SGIP as SIF contributions from IEEE 802. The documents will be forwarded to Bill Ash to be transmitted to the appropriate individual in SGIP.		
Moved	Gilb		
Second	Marks		
Results	(y/n/a)	12/1/1	
Motion	Passes		

<b>7.14</b>	<b>ME</b>	<b>IEEE 802.24, 802.24 802 Package of SUN Standards</b>	<b>Gillb</b>	<b>5</b>	<b>05:24 PM</b>
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Should have been deleted, as it was covered by 6.07

<b>7.15</b>	<b>II*</b>	<b>IEEE 802.1, Liaison response to the MEF liaison L00156-000 (CFM Link Trace Trigger).</b>	<b>Jeffree</b>	<b>0</b>	<b>05:29 PM</b>
<b>7.16</b>	<b>II*</b>	<b>IEEE 802.1, Liaison response to the ITU liaison ols 443 (Bridging Transparent Clock frames)</b>	<b>Jeffree</b>	<b>0</b>	<b>05:29 PM</b>
<b>7.17</b>	<b>II*</b>	<b>Liaison letter to ISO/IEC JTC1/SC 25 WG3: Response to technical report for 40 Gb/s cabling systems liaison letter</b>	<b>Law</b>	<b>0</b>	<b>05:29 PM</b>

Approved with approval of agenda.

<b>8.01</b>	<b>II</b>	<b>Low Price Single Copy Sales Likely to Discontinue</b>	<b>Nikolich</b>	<b>5</b>	<b>05:29 PM</b>
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Given the low number of copies being sold, it is expected that the program will be discontinued in February 2013.

<b>9.01</b>		<b>IEEE 802 Leadership Workshop and Agenda</b>	<b>Marks</b>	<b>5</b>	<b>05:34 PM</b>
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Marks showed agenda for the IEEE 802 Leadership Workshop @

[https://docs.google.com/spreadsheet/ccc?key=0Arb3\\_3dB\\_pMCdHJQak1iQzQxODJxcEFiOW1xM2twUWc#gid=0](https://docs.google.com/spreadsheet/ccc?key=0Arb3_3dB_pMCdHJQak1iQzQxODJxcEFiOW1xM2twUWc#gid=0).

<b>9.02</b>	<b>II</b>	<b>JTC1 ad-hoc report</b>	<b>Myles</b>	<b>5</b>	<b>05:39 PM</b>
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Myles not present

<b>9.03</b>	<b>II</b>	<b>IEEE 802 / IETF Update</b>	<b>Thaler</b>	<b>5</b>	<b>05:44 PM</b>
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To be discussed at Leadership conference. Email sent to reflector with link to 4441 Revision

<b>9.04</b>	<b>II</b>	<b>Regulatory report</b>	<b>Lynch</b>	<b>5</b>	<b>05:49 PM</b>
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Lynch gave verbal update. Working on response to General TV White space use. Question 236 for smart grid.

9.05	II	Executive secretary report	Rosdahl	5	05:54 PM
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Rosdahl presented ec-12-0063-01-00EC, Slide 29.

Nov 2012

doc.: IEEE 802 EC-12/00063r1

## **F9.03 II - Executive secretary report**

- **Busy with Venues, Tools and rules**

Submission

Slide 29

Jon Rosdahl, CSR



9.06	II	IEEE 802 EC Interim Teleconference 5 Feb 2013, 1-3PM ET	Rosdahl	1	05:59 PM
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Rosdahl presented ec-12-0063-01-00EC, Slides 31- 32

Nov 2012

doc.: IEEE 802 EC-12/00063r1

## **F9.05: IEEE 802 EC Interim Teleconference**

- **802 EC Interim Conference calls are 1-3PM ET on the first Tuesday of FEB, JUN and OCT.**

**2013: 05FEB, 04JUN, 01OCT**

**2014: 04FEB, 03JUN, 07OCT**

Submission

Slide 31

Jon Rosdahl, CSR

Nov 2012

doc.: IEEE 802 EC-12/00063r1

## **802 EC Interim Teleconference: Feb 5, 2013 1-3PM ET**

- **Draft Agenda:**
  - Welcome/Intro/Approve Agenda - Nikolich 4 min
  - Report: Single Sales Channel Update - Nikolich 3 min
  - Report:
  - Report:
  - Discussion:
  - Report: March 2013 Orlando Meeting plan Status - Rosdahl 3 min
  - Report: July 2013 Geneva Meeting Plan Status - Rosdahl 4 min
  - Motion Confirm approval of March 2014 venue location - Rosdahl
  - AOB 106 min

Submission

Slide 32

Jon Rosdahl, CSR

9.07	II	Call for Tutorials for March 2013 Plenary	Rosdahl	2	06:00 PM
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Rosdahl presented ec-12-0063-01-00EC, Slide 30

Nov 2012

doc.: IEEE 802 EC-12/00063r1

## F9.04 II- Call for Tutorials for March 2013 Plenary

- Requests for Tutorial Slots in March now open
- Please follow the process as documented in the Chair's Guidelines "2.5 Tutorials".
- Please fill in doc 802 EC-12/64r0 for your request.
  - <https://mentor.ieee.org/802-ec/dcn/12/ec-12-0064-00-00EC-proposed-tutorial-request-form.doc>

Submission

Slide 30

Jon Rosdahl, CSR

9.08	II*	Appeals report -No items to report	D'Ambrosia	0	06:02 PM
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Approved with approval of agenda.

9.09	II	Network Services report	Alfvin	5	06:02 PM
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Bandwidth was beneath what was expected. Was supposed to be 100Mb/s, testing showed 50 Mb/s. Then found it was only 40 Mb/s, and that it was shared with Hotel.

General agreement amongst EC members that wireless service was slow.

Completion of agenda. Meeting adjourned at approximately 6:00pm.

### **Action Item Summary**

D'Ambrosia to have digital media agreement reviewed and updated.

IEEE 802 JTC1 Ad Hoc refresh the document exchange list between ISO and IEEE 802