IEEE P802.11  
Wireless LANs

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| PAR Minutes – March 2018 Session | | | | |
| Date: 2018-03-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Michael Montemurro | BlackBerry | 4701 Tahoe Blvd, Mississauga, ON. Canada L4W0B4 | +1 289-261-4183 | [mmontemurro@blackberry.com](mailto:mfischer@broadcom.com) |
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Abstract

This document contains the minutes of the PAR Standing Committee session that was held during the March 2018 IEEE 802.11 Plenary meeting.

# Monday March 5, 16:00-18:00

### Jon Rosdahl, Qualcomm – Chair

**Michael Montemurro, BlackBerry – Vice-Chair**

Attendance: 10

1. Meeting called to order at 16:07
2. Agenda Review – approved as document 11-17/293r0
   * Agenda is approved unanimously
3. Minutes Approval from November– document 11/17-1715r0

MOTION: Move to approve doc 11-17/1715r0 <<https://mentor.ieee.org/802.11/dcn/17/11-17-1715-00-0PAR-minutes-november-2017-session.docx>>  as the minutes for PAR Review SC from November 2017 Plenary in Orlando.

Mover: Michael Montemurro

Second: James Glib

Result: 3 – Yes; 0 – No; 0 - Abstain. Motion passes.

1. PAR Comments are captured in 11-18/293r1:
2. **802.3cm - Amendment: 400Gb/s over MMF,** [**PAR**](https://mentor.ieee.org/802-ec/dcn/18/ec-18-0017-01-00EC-ieee-p802-3cm-draft-par.pdf) **and** [**CSD**](https://mentor.ieee.org/802-ec/dcn/18/ec-18-0018-01-00EC-ieee-p802-3cm-draft-csd.pdf)
   * PAR:
     + The IEEE 802.3bs standard defines an SR16 (with 16 pairs). This project defines a specification with less than 16 pairs.
     + No comments.
   * CSD:
     + CSD page 2: Delete the bullet starting with “In addition, it is expected…” The bullet does not add any additional information.
     + CSD Page 4: Expand the acronyms QSFP, CO and PMD.
     + CSD Page 5: Delete the sentence in the last bullet beginning with “In addition…”
     + CSD Page 6: Re-word last two bullets to avoid using “Strong desire to” and “Need to support”.
     + CSD Page 7: Expand the acronyms for PAM4 and VCSEL
3. **802.15.4w - Amendment: LPWAN (Low Power Wide Area Network),** [**PAR**](https://mentor.ieee.org/802.15/dcn/18/15-18-0050-03-0000-802-15-4w-par-draft.pdf) **and** [**CSD**](https://mentor.ieee.org/802.15/dcn/18/15-18-0053-02-lpwa-csd-for-802-15-4w-lpwan-phy.docx)
   * PAR:
     + 2.1: Expand “LECIM”
     + 2.1: Use of “Low Power” should include the range or limit.
     + 5.2b: Change “Std.” to “Std”
     + 5.2b: Expand “FSK”
     + 5.2b: Change “<30kBit/s” to “< 30 kb/s”
     + 5.2b: Delete the last two sentences. Not sure what is meant by “lower code rate”. Alternatively modify the text to make it more definitive and reword the maining of “K=7, R=1/2 convolution code to make it more clear.
     + 5.2b: define the expected range of “Wide Area Network”. i.e. what are you expecting to reach?
     + 5.5: change “140dBm” to “140 dBm”
     + 5.5: What is “high link margin” what is “low link margin”?
     + 5.6: delete “and similar organtizations” – not necessary.
     + 8.1: add full name of the cited “IEEE Std 802ah”
   * CSD:
     + No comments.
4. **802.15.4x - Amendment: FANE (Field Area Network Enhancements),** [**PAR**](https://mentor.ieee.org/802.15/dcn/17/15-17-0624-04-fane-fane-proposed-par.pdf) **and** [**CSD**](https://mentor.ieee.org/802.15/dcn/17/15-17-0622-03-fane-proposed-fane-csd.docx)
   * PAR:
     + 2.1: Expand “SUN”
     + 2.1: Change “2.4Mb/s” to “2.4 Mb/s”
     + 5.2b: Delete “IEEE Std 802.15.4”
     + 5.2b: Change “2.4Mb/s” to “2.4 Mb/s”
     + 5.2b: Delete “as needed”
     + 5.5: Add “IEEE” before “802.15.4” in two locations.
     + 6.1.b: Why “yes” for PHY specific only PAR?
5. **802.15.4y - Amendment: SECN (Security Next Generation),** [**PAR**](https://mentor.ieee.org/802.15/dcn/18/15-18-0037-03-secn-draft-par-for-4y.pdf) **and** [**CSD**](https://mentor.ieee.org/802.15/dcn/18/15-18-0040-04-secn-draft-csd-for-4y.docx)
   * PAR:
     + 2.1: Replace the title with “Amendment defining support for Advanced Encryption Standard (AES) AES-256 encryption and security extensions.”
     + 2.1: Expand AES-256 in title
     + 5.2b: change “Std.” to “Std”
     + 5.2b: “This amendment adds support AES-256 encryption and defines security extensions to all for future encryption modes and key lengths. “
     + 5.2b: delete the last sentence.
     + 5.5: change “Quantum Computing” to “quantum computing”
   * CSD:
     + 1.2.1b: change “control etc.” to “control, etc.”
6. **802.15.4z - Amendment: EIR (Enhanced IR-UWB Ranging),** [**PAR**](https://mentor.ieee.org/802.15/dcn/18/15-18-0059-01-0elr-802-15-4z-elr-par-draft.pdf) **and** [**CSD**](https://mentor.ieee.org/802.15/dcn/18/15-18-0036-01-0000-draft-csd-154z-elr.docx)
   * PAR:
     + 2.1: Change “enhancing existing” to “enhanced”
     + 5.2b: Change “existing” to “the”
     + 5.2b: Delete “within IEEE Std 802.15.4”
     + 5.2b: Delete “, and others as appropriate” and move “and” before the last item.
     + 5.2b: Delete the second last sentence or move it to 5.5:
     + 5.2b: Reword the last sentence to “This amendment defines necessary MAC changes to support these PHY enhancements.”
     + 6.1.b: Remove the explanatory sentence.
7. Recess at 18:02 until Tuesday at 08:00

# Tuesday March 6, 8:00-10:00

### Jon Rosdahl, Qualcomm – Chair

**Michael Montemurro, BlackBerry – Vice-Chair**

Attendance: 4

1. Meeting called to order at 08:10
2. Agenda Review – approved as document 11-17/293r0
   * + Agenda is approved unanimously
3. Continue PAR review – results are captured in 11-17/293r1

* **P802.1CBcv - Amendment: Information Model, YANG Data Model and Management Information Base Module,** [**PAR**](http://www.ieee802.org/1/files/public/docs2017/cv-draft-PAR-1017-v03.pdf) **and** [**CSD**](http://www.ieee802.org/1/files/public/docs2017/cv-draft-CSD-0917-v01.pdf)
  + PAR:
    - 5.2b: PAR should be written in present tense – not promising future action. Suggest deleting the last sentence.
    - 1.2.1b: change “control etc.” to “control, etc.”
  + CSD: No comments.
* **802.3ck - Amendment: 100 Gb/s Signaling,** [**PAR**](https://mentor.ieee.org/802-ec/dcn/18/ec-18-0015-01-00EC-ieee-p802-3ck-draft-par.pdf) **and** [**CSD**](https://mentor.ieee.org/802-ec/dcn/18/ec-18-0016-01-00EC-ieee-p802-3ck-draft-csd.pdf)
  + PAR:
    - 5.2b: Change to “This project defines additions and appropriate modifications to add Physical Layer specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signaling.”. The PAR should be in past tense, refer to the “amendment” as opposed to “project, and do not need to self-referential.
    - 5.5: Suggested changed to 2nd and 3rd sentence: “To meet this growth, ongoing and advancement in SERDES technology to higher rates of operation enables the opportunity to develop higher density or lower cost electrical interaces using 100 Gb/s signaling.”
    - 5.6: Delete “Stakeholder identified to date include, but are not limited to:”
    - PAR 8.1: if you accept our suggestion for PAR 5.5, then you can delete “IEEE Std 802.3 reference in 8.1.
  + CSD:
    - Page 2: do not promise future work. The CSD should state features of the current project.
    - Page 6: The second bullet seems to be unnecessary. Proposed delete.
    - Page 8: Change the 3rd bullet – delete the second sentence.
* **802.3cg, Amendment: 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associated Power Delivery,** [**PAR Modification**](https://mentor.ieee.org/802-ec/dcn/18/ec-18-0013-01-00EC-ieee-p802-3cg-draft-par-modification-request.pdf) **and** [**CSD Modification**](https://mentor.ieee.org/802-ec/dcn/18/ec-18-0014-01-00EC-ieee-p802-3cg-draft-csd-modifications.pdf)
  + PAR:
    - PAR 5.2.b.: suggested change (while your changing) “This amendment defines 10 Mb/s Physical Layer (PHY) specifications and management parameters for operation, and associated optional provision of power, using a single balanced pair of conductors”
  + CSD
    - No comments.
* **802.1DC - Standard for Quality of Service Provision by Network Systems** [**PAR**](http://ieee802.org/1/files/public/docs2018/dc-draft-PAR-0118-v03.pdf) **and** [**CSD**](http://ieee802.org/1/files/public/docs2018/dc-draft-CSD-0118-v02.pdf)
  + PAR:
    - PAR 8.1: add to the note for “#5.3” - “#5.2 and #5.5” for title note and add the title of “IEEE Std 802.1Q-2014.” which is different in 5.2 and 5.5 than for “IEEE P802.1Q” used in 5.3
  + CSD:
    - PA CSD 1: editorial the sentence “The CSD consists of the project process requirements, 1.1, and the 5C requirements, 0.”Seems to have a strange “0” in it – should it be 1.2?
* **802.1CBdb -  Amendment: Extended Stream Identification Functions,** [**PAR**](http://ieee802.org/1/files/public/docs2018/db-draft-PAR-0118-v02.pdf) **and** [**CSD**](http://ieee802.org/1/files/public/docs2018/db-draft-CSD-0118-v01.pdf)
  + PAR:
    - 5.2.b: the PAR should be in present tense and describe the amendment scope. Delete the second sentence Suggest change to first sentance: “This amendment specifies procedures and managed objects that add new stream identification functions.”
* **802.1Qcz - Amendment: Congestion Isolation,** [**PAR**](http://www.ieee802.org/1/files/public/docs2018/new-dcb-congdon-draft-congestion-isolation-PAR-0118-v04.pdf) **and** [**CSD**](http://www.ieee802.org/1/files/public/docs2018/new-dcb-congdon-draft-congestion-isolation-CSD-0118-v02.pdf)
  + PAR:
    - PAR 2.1 – missing “Amendment:” in title. Modify as “Amendment: Congestion Isolation.”
  + CSD:
    - No comments.
* **P60802 - Standard:  Time-Sensitive Networking Profile for Industrial Automation,** [**PAR**](http://ieee802.org/1/files/public/docs2018/P60802-draft-PAR-0118-v01.pdf) **and** [**CSD**](http://ieee802.org/1/files/public/docs2018/P60802-draft-CSD-0118-v01.pdf)
  + PAR:
    - 5.3: Add IEEE in front of P802.1AS-Rev in both locations.
    - 8.1: Add expansions of IEEE P802.1AS-Rev in reference to 5.3.
  + CSD:
    - No comments.
* **802.11bb - Amendment:  Light Communications (LC),** [**PAR**](https://mentor.ieee.org/802.11/dcn/17/11-17-1604-08-00lc-a-par-proposal-for-light-communications.docx) **and** [**CSD**](https://mentor.ieee.org/802.11/dcn/17/11-17-1603-07-00lc-a-csd-proposal-for-light-communications.docx)
  + PAR:
    - This PAR was reviewed by other IEEE 802 working groups. The LC SG will address those comments.
* **802.22.3 - Standard: Spectrum Characterization and Occupancy Sensing ,** [**PAR Modification**](https://mentor.ieee.org/802.22/dcn/18/22-18-0005-00-0003-802-22-3-par-modification.docx)**, and** [**CSD**](https://mentor.ieee.org/802.22/dcn/14/22-14-0061-07-0003-802-22-spectrum-characterization-and-occupancy-sensing-csd.docx)
  + PAR:
    - No comments.
  + CSD:
    - 1.2.3 a) fix Characterization spelling mistake.

1. Recess at 10:03 until Tuesday AM2.

# Tuesday March 6, 10:30-12:30

### Jon Rosdahl, Qualcomm – Chair

**Michael Montemurro, BlackBerry – Vice-Chair**

Attendance: 5

1. Meeting called to order at 08:10
2. Agenda Review – approved as document 11-17/293r0

* Agenda is approved unanimously

1. Continue PAR review – review results are captured in 11-17/293r1

* **802.1X - Standard for Local and metropolitan area networks--Port-Based Network Access Control,** [**PAR**](http://www.ieee802.org/1/files/public/docs2018/x-rev-seaman-draft-par-0218-v01.pdf)
  + - PAR
      * PAR 5.3 – PAR 5.5 indicates that IEEE P802.1Xck is a dependency, so that would mean that 5.3 should say yes and add the appropriate information.
      * PAR 5.5 - P802.1Xck is missing the “IEEE”
      * PAR 8.1 – Titles should be the full title of each cited standard – IEEE 802.1Xck and IEEE Std 802.1Xbx
      * PAR 8.1 - a reference to IEEE Std 802.1AE, IEEE Stds 802 and IEEE Std 802.1AE.
      * PAR 8.1 - correct “IEEE Stds 802 and 802.1AE.” should be “IEEE Stds 802 and IEEE Stds 802.1AE.”
    - Document 11-17/293r1 will be posted.

MOTION: Move to accept 11-18/293r1 as the response from the IEEE 802.11 PAR Review SC to the EC reflector..

Mover: Stephen McCann

Second: Michael Montemurro

Discussion: None

Result: Unanimous. Motion Passes

1. Recess at 12:01pm.

# Thursday March 8, 10:30-12:30

### Jon Rosdahl, Qualcomm – Chair

**Michael Montemurro, BlackBerry – Vice-Chair**

Attendance: 4

1. Meeting called to order at 10:34
2. Agenda Review – approved as document 11-18/293r2
3. Summary of responses received and are summarized in 11-18/293r3
   * All comments were approved.
4. Approval of PAR Review SC report

MOTION: Move to accept 11-18/293r2 as the report from PAR Review SC for the March 2018 802 Plenary.

Mover: Michael Montemurro

Second: Stephen McCann

Discussion: None

Result: 2 – Yes; 0 – No; 0 – Abstain. Motion Passes.

1. Adjourn at 10:48.