IEEE P802.11  
Wireless LANs

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| PAR Minutes – March 2017 Session | | | | |
| Date: 2017-03-16 | | | | |
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Abstract

This document contains the minutes of the PAR Standing Committee session that was held during the March 2017 IEEE 802.11 Plenary meeting.

# Monday March 13, 16:00-18:00

### Jon Rosdahl, Qualcomm – Chair

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

Attendance: 13

1. Meeting called to order at 16:04
2. Agenda Review – approved as document 11-17/0253r0
   * Agenda is approved unanimously
3. Minutes Approval from November – document 11/16/1486r0

MOTION: Move to accept 11-16/1486r0 as the minutes for the November 2017 PAR SC session.

Mover: Michal Montemurro

Second: Andy Scott

Result: Minutes are approved unanimously.

1. PAR Comments are captured in 11-17/0253r1
2. **802.15.3f** - Amendment extending the millimeter wave Physical Layer (PHY) to use the 64 to 71 GHz spectrum, [PAR](https://mentor.ieee.org/802.15/dcn/17/15-17-0055-01-0000-draft-par-amendment-for-use-of-the-64-71-ghz.pdf) and [CSD](https://mentor.ieee.org/802.15/dcn/17/15-17-0049-00-0000-csd-amendment-for-use-of-the-64-71-ghz.docx).

* PAR:
  + All the group is doing is updating the range of the bandwidth. That’s why the Projected Completion date is aggressive.
  + There is a note htat the minimum time between initial sponsor ballot and submission to Revcom is 6 months.
  + There were only 4 changes to the IEEE 802.11 standard to address the same issue.
  + STRAW\_POLL: Are you in favour of asking the group to understand why the Projected Completion Date is so early? Result: 8 – Yes; 2 – No.
  + Section 4.3 – Ask the group why the estimated PAR completion date is so early.
  + General, the current channelization has the last channel at 65 GHz. Why does the PAR propose changing channels in the 64 GHz to 71 GHz band. Is the 57 GHz to 64 GHz channelization being changed?
  + For 5.2b, The spectrum extension would only apply to specific regulatory domains, since it’s the only country where this band is license exempt.
  + For 5.2b, Is the RF channelization plan for this band the same as the 60 GHz band? If the project does not address the international agreed to channel plan, then there is an issue. (ITU M.2003.1)
  + For 5.5, Ask the same channelization question as 5.2b.
  + For 5.2b, Besides channelization, other parameters should be considered. For example, power (EIRP), and beam width. Please include constraints for parameters other than channelization.
  + They need to be more specific when they say “take advantage of”.
  + “taking advantage of” means to make use of IEEE 802.11.3 in more spectrum.
  + For 5.5, the description should clearly state the market need for extending the technology to operate in the band.
  + For 7.1, the PAR should mention P802.11ay
* CSD:
  + 1.2.1a. Change “64 GHz to 7 GHz” to “64 Ghz to 71 GHz”
  + 1.2.1a. There should be 3 new channels, not 2.
  + 1.2.1b. There should be 3 new channels, not 2.
  + 1.2.1b. Change “PHYs being used” to “PHYs.. These devices and systems are being used”
  + 1.2.2a. The answer should be simply “Yes”.
  + 1.2.3 For distinct identity, the answer to this section should indicate how this project differs from P802.11ay. Include a statement to the effect that no other standardization project adds support for the use of IEEE 802.15.3 in this band.
  + 1.2.4a. Should “66 GHz” be replaced with “64 GHz”.
  + 1.2.5. Replace the answer to each question with an answer at the end of the section, quoting the text of the current reply to 1.2.5a.

1. **802.15.11** - Standard: Multi-Gigabit/s Optical Wireless Communications,  [PAR](https://mentor.ieee.org/802.15/dcn/17/15-17-0076-01-0000-multi-gigabit-owc-par.pdf) and [CSD](https://mentor.ieee.org/802.15/dcn/17/15-17-0075-00-0000-multi-gigabit-owc-csd.docx)

* PAR:
  + 2.1, why is there a “/s” at the end of Gigabit/s. Consider changing “/s” to “per second”.
  + 2.1 the medium is not a light-guide. It could be confused with Optical communications with light guides.
  + The projected completion date is aggressive.
  + For 5.2, There is a visible light communication specified by 802.15.7. This PAR pulls out the piece that refers to visible light.
  + For 5.2, is there an overlap in scope with the existing Optical group? There seems to be an overlap with 802.15.7.
  + For 7.1, include description of differences to similar project 802.15.7
* CSD:
  + In 1.2.3. Change “802.15.7” to “IEEE 802.15.7”
  + In 1.2.3, none of this information is in the PAR.

1. Document will be posted 11-17/0253r1 as a summary of PAR SC responses.
2. Recess at 17:59 until Tuesday AM1

# Tuesday March 14, 10:30-12:30

### Jon Rosdahl, Qualcomm – Chair

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

Attendance: 8

1. Meeting called to order at 10:30
2. Agenda Review – approved as document 11-17/0253r0
3. **802.15.11** Standard: Multi-Gigabit/s Optical Wireless Communications,  [PAR](https://mentor.ieee.org/802.15/dcn/17/15-17-0076-01-0000-multi-gigabit-owc-par.pdf) and [CSD](https://mentor.ieee.org/802.15/dcn/17/15-17-0075-00-0000-multi-gigabit-owc-csd.docx)

* PAR (Continued)
  + The PAR number for this project is potentially confusing. Request that the group change the number to 802.15.13.
* CSD (Continued):
  + 1.2.3. Change “mutli-point” to “multi-point” in text.
  + 1.2.3. Staring with the statement “ With the exception” seems an odd way to start a statement of Distinct Identity.
  + 1.2.3 Delete “With the exception of 802.16.7,”
  + The term Optical Wireless Communications (OWE) is an industry term referring to this technology. There was a term a few years ago “Visible Light Communication” , but this term was replaced because it did not cover Infrared Communication.
  + 1.2.3 Replace 15.x with 802.15.x throughout the description.

1. **802.3ch** - Amendment: greater than 1 Gb/s Automotive Ethernet, [PAR](https://mentor.ieee.org/802-ec/dcn/17/ec-17-0008-00-00EC-ieee-p802-3ch-draft-par.pdf) and [CSD](https://mentor.ieee.org/802-ec/dcn/17/ec-17-0009-00-00EC-ieee-p802-3ch-draft-csd.pdf)

* PAR:
  + 5.5: Change “G/bps” to “Gb/s”
  + 5.5: Change “legacy network” to “legacy vehicular network”
  + 2.1: Use either “Automotive” or “Vehicular” as a consistent term throughout the document.
* No CSD:
  + 1.2.3: The work on Management Objects are progressing in parallel as part of the Yang model work. IEEE 802.3.1 and IEEE 802.3.2 are the projects that are addressing managed objects.
  + The first bullet of Broad Market Potential could be interpreted in multiple ways depending on how you parce the sentence.

1. **802.15.4** – Standard Revision, [PAR](https://mentor.ieee.org/802.15/dcn/17/15-17-0106-01-0000-802-15-4-par-revision-d.pdf)

* PAR:
  + 4.3: There needs to be at least 6 months between Initial Sponsor Ballot and RevCom submission.
  + 5.2: The scope needs to be specific in what it means by “other”. Either delete “and other” or identify what are the “other bands”
  + 5.2: Change “what in now” to “what is”
  + 5.2. Delete “especially”
  + 5.5: Change “number errors” to “number of errors”
  + 5.5: Add “IEEE std” to the amendments being rolled up. List the name of the standards cited in 5.5.
  + 8.1 List the full name of the standards referred to in 5.5

1. **802.11** – Standard Revision

* PAR:
  + No comments.

1. PAR and CSD comments will be posted as document 11-17/0253r1
2. Recess until Thursday AM2.

# Thursday March 16, 10:30-12:30

### Jon Rosdahl, CSR-Qualcomm – Chair

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

Attendance: 7

1. Meeting called to order at 10:31
2. Agenda Review – approved as document 11-17/0253r2
3. Summary of responses received and are summarized in 11-17/0253r3
4. **802.3ch** - Amendment: greater than 1 Gb/s Automotive Ethernet, [PAR](https://mentor.ieee.org/802-ec/dcn/17/ec-17-0008-00-00EC-ieee-p802-3ch-draft-par.pdf) and [CSD](https://mentor.ieee.org/802-ec/dcn/17/ec-17-0009-00-00EC-ieee-p802-3ch-draft-csd.pdf)
   * Reviewed responses. No comments.
5. **802.15.4** – Standard Revision, [PAR](https://mentor.ieee.org/802.15/dcn/17/15-17-0106-01-0000-802-15-4-par-revision-d.pdf)
   * Reviewed responses.
   * The response to the comment on 5.2 is non-responsive.
   * They can’t use 8.1 to clarify the scope.
   * Proposed rebuttle:
     + The response does not address the concern of including “any band”. We would like to not have the scope expand without definition or bands. The phrase “devices operating in a variety of geographic regions” does not provide any information.
6. **802.15.3f** - Amendment extending the millimeter wave Physical Layer (PHY) to use the 64 to 71 GHz spectrum, [PAR](https://mentor.ieee.org/802.15/dcn/17/15-17-0055-01-0000-draft-par-amendment-for-use-of-the-64-71-ghz.pdf) and [CSD](https://mentor.ieee.org/802.15/dcn/17/15-17-0049-00-0000-csd-amendment-for-use-of-the-64-71-ghz.docx).
   * Reviewed responses. No comments.
7. **802.15.11 (renamed 802.15.13)** - Standard: Multi-Gigabit/s Optical Wireless Communications,  [PAR](https://mentor.ieee.org/802.15/dcn/17/15-17-0076-01-0000-multi-gigabit-owc-par.pdf) and [CSD](https://mentor.ieee.org/802.15/dcn/17/15-17-0075-00-0000-multi-gigabit-owc-csd.docx)
   * commenting on an IEEE 802.11 PAR.
8. **802.11** – Standard Revision
   * Reviewed comments on changes.
   * Received new comment on PAR changes: “By selecting “Registry response” to Yes, we have to provide further information in 6.1.”
   * Add the following explanation to 6.1.b: “ The RAC may want to review for correct and consistent usage of registry terms.”
9. Approval of PAR Review SC report

MOTION: Move to accept 11-16/0253r3 as the report from PAR Review SC for the March 2017 802 Plenary.

Mover: Donald Eastlake

Second: Michael Montemurro

Discussion: None

Result: 6 – Yes; 0 – No; 0 – Abstain. Motion Passes.

1. Adjourn at 11:03.