IEEE P802.11 Wireless LANs

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| PAR Minutes – March 2022 |
| Date: 2021-06-29 |
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Abstract

This document contains the minutes of the PAR Standing Committee session that was held by teleconference in March 2022.

# Monday March 7, 13:30-15:30

### Jon Rosdahl, Qualcomm – Chair

### Michael Montemurro, Huawei Technologies Co., Ltd – Vice-Chair

Attendance: 13

1. Meeting called to order at 13:32
2. Review of IEEE-SA participation guidelines and policies and procedures.
3. Following the same process as for November. We will provide comments on the PARs submitted for the November 2021 plenary.
	* Agenda Review – approved as document 11-22/0268r0 - [https://mentor.ieee.org/802.11/dcn/21/11-22-268-00-0PAR-par-review-sc-meeting-agenda-and-comment-slides-mar-22-electronic-plenary.pptx](https://mentor.ieee.org/802.11/dcn/21/11-22-768-00-0PAR-par-review-sc-meeting-agenda-and-comment-slides-mar-22-electronic-plenary.pptx)

**Agenda is approved unanimously.**

1. Motion to approve minutes from July PAR SC meetings:

MOTION: **Move to approve the minutes from November in document 11-21/1779r1:** https://mentor.ieee.org/802.11/dcn/21/11-21-1779-01-0PAR-par-minutes-november-2020-session.docx .

Mover: Michael Montemurro

Second: Lei Wang

Result: **Approved. Unanimous.**

1. PAR and CSD comments are captured in 11-21/0268r1
	* **802.3dg - Amendment: Physical Layer Specifications and Management Parameters for 100Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors, PAR and CSD**
	* **PAR:**
	* 2.1 - Change “100Mb/s” to “100 Mb/s”.
	* 2.1 - remove “IEEE” from first word
	* 5.2b – remove unwarranted “PHY” Acronym: suggest change to “Specify additions to and appropriate modifications of IEEE Std 802.3 to add 100 Mb/s Physical Layer (PHY) specifications and management parameters for operation, and associated optional provision of power, using a single balanced pair of conductors.
	* The stakeholders include industrial, building automation and sensors.
	* 5.4: Change “IEEE 802.3” to “IEEE Std 802.3” and add full name to list in 8.1. 8.1 list names of standards cited.
	* **CSD:**
	* No comments.
	* **802-Rev - Standard - Overview and Architecture,**[**PAR Revision**](https://ieee802.org/1/files/public/docs2022/802-rev-draft-PAR-0122-v02.pdf)
* Could consider removing “architecture” from the title. No strong opinion on this.
* One could argue that PAN/Specialty networks are not part of the architecture. Could remove the “etc. “
* 5.6 Change “Standards developers within IEEE 802. Manufacturers, distributors, and users of products and services that conform to the LAN, MAN, and PAN standards developed by IEEE 802.” To ““Standards developers, manufacturers, distributors, and users of products and services that use or conform to IEEE 802 standards.”
* 802.1Qdt - Amendment: Priority-based Flow Control Enhancements, [PAR](https://ieee802.org/1/files/public/docs2022/dt-draft-PAR-0122-v01.pdf) and [CSD](https://ieee802.org/1/files/public/docs2022/dt-draft-CSD-0122-v01.pdf)
* PAR:
	+ 2.1 – Remove “IEEE” from the title
	+ 5.2.b – Please remove “This amendment also addresses errors and omissions in the description of existing IEEE Std 802.1Q functionality.” this leaves the project open ended. As a compromise change to “This amendment also addresses errors of the existing IEEE Std 802.1Q functionality.”
* CSD:
	+ No comments
* **802.1DU - Standard for Cut-Through Forwarding Bridges and Bridged Networks,**[**PAR**](https://ieee802.org/1/files/public/docs2022/du-draft-PAR-0122-v01.pdf)**and**[**CSD**](https://ieee802.org/1/files/public/docs2022/du-draft-CSD-0122-v01.pdf)
* PAR:
	+ 2.1 – should the title not include “Standard for”? Was this PAR form not
	+ generated by the myProject tool?
	+ 5.4 – Suggested change “This standard enables communication delays lower than achievable by Bridges and bridged networks solely supporting store-and-forward operations.” to “This standard enables reduced communication delays lower than achievable by bridges and bridged networks solely supporting store-and-forward operations”
* CSD:
	+ No comments
* 802.15.6ma - Standard -  Wireless Body Area Networks, [PAR Revision](https://mentor.ieee.org/802.15/dcn/22/15-22-0088-00-006a-par-revision-draft.pdf) and [CSD](https://mentor.ieee.org/802.15/dcn/22/15-22-0087-01-006a-ieee-802-criteria-for-standards-development-for-p802-15-6ma-revision.docx)
* PAR:
	+ 5.2 – Change the scope statement to be

“The standard defines short-range, wireless communication in the vicinity of, or inside, a human body (but not limited to humans) using the Ultra-Wideband (UWB) and narrow-band physical layer (PHY), and medium access control (MAC) to support enhanced dependability to human body area networks (HBAN) in the industrial scientific medical (ISM) bands as well as frequency bands approved by national medical and/or regulatory authorities. The standard provides for support for quality of service (QoS) and data rates up to 50 Mb/s and incorporates support for vehicle body area networks (VBAN).

The standard specifies the coexistence of multiple piconets including inter-BAN interference and inter-piconets interference; simple MAC protocol; and sensing and feedback control loop delay.”

* + 8.1 – Add #5.2 VBAN consists of a coordinator in a vehicle with devices around the vehicle, operating under strict compliance to standards and limits for electromagnetic compatibility (EMC) and electromagnetic interference (EMI).
	+ 5.4 – Move “Current piconets do not meet the medical (proximity to human tissue) and relevant communication regulations for some application environments. They also do not support the combination of reliability (QoS), low power, data rate and noninterference required to broadly address the breadth of body area network applications. Additionally, this standard provides enhanced dependability that is required for some medical use cases. This includes remote medical healthcare, therapy and other monitoring that can enhance quality of life (QoL) in various population segments. ” to the 5.5 Need for the Project.
* Chair will post the PAR/SC output to the 802 WG reflector and submit the result to the EC.
1. The next teleconference is scheduled for Wednesday March 9 – 13:30 ET.
2. Adjourn at 15:30

# Wednesday March 9, 13:30-15:30

### Jon Rosdahl, Qualcomm – Chair

### Michael Montemurro, Huawei Technologies Co., Ltd – Vice-Chair

Attendance: 15

1. Meeting called to order at 13:33
2. Review of IEEE-SA participation guidelines and policies and procedures.
3. Agenda Review - approved as document 11-22/0268r2 - https://mentor.ieee.org/802.11/dcn/21/11-22-0268-02-0PAR-par-review-sc-meeting-agenda-and-comment-slides-mar-2022-electronic-plenary.pptx
4. PAR and CSD comments are captured in 11-22/268r2
* 802.15.6a - Amendment: Dependable Human and Vehicle Body Area Networks, [PAR](https://mentor.ieee.org/802.15/dcn/22/15-22-0067-00-0000-p802-15-6a-par-withdraw.pdf) and [CSD](https://mentor.ieee.org/802-ec/dcn/21/ec-21-0192-00-ACSD-p802-15-6a.pdf)
* PAR
* Project Numbering - P802.15.6 is the correct number – the 802.15.6ma would be good for internal usage (name of the TG working on it, but the project itself is P802.15.6.
* CSD:
	+ Typically, a revision project does not include a CSD.
	+ 1.2.3 – Distinct Identity - is only identifying new material, it should address the standard as a whole. While the revision project was created originally as an amendment, it must now look at the standard in tooal and answer CSD questions from that standpoint.
	+ 1.2.4 – Technical Feasibility – The technical feasibility of 802.15.6 is well proven in the market. Then change the first sentence for the new functionality. “New capabilities” instead of “Enhancements”
	+ 1.2.4 b) – similar changes – the intent is to broaden the statement
	+ 1.2.5 – Similar comment the Economic Feasibility for the full standard should be addressed. It is nice to know that enhancements don’t break overall feasibility.
* **802.15.12 - Upper Layer Interface (ULI) for IEEE 802.15.4 Low-Rate Wireless Networks,**[**PAR Withdrawal**](https://mentor.ieee.org/802.15/dcn/22/15-22-0048-00-0000-p802-15-12-par-withdraw.pdf)
* No comments
* 802.15.6a - Amendment: Dependable Human and Vehicle Body Area Networks, [PAR Withdrawal](https://mentor.ieee.org/802.15/dcn/22/15-22-0067-00-0000-p802-15-6a-par-withdraw.pdf) and [CSD](https://mentor.ieee.org/802-ec/dcn/21/ec-21-0192-00-ACSD-p802-15-6a.pdf)
	+ PAR Withdrawal Additional Information: Replace “P802.15.6a was for an amendment to IEEE Std 802..15.6-2012. Since this standard will expire at the end of 2022 without a revision, the 802.15 WG wishes to continue the project as a revision.

with : “P802.15.6a is an amendment to IEEE Std 802.15.6-2012, which will expire at the end of 2022 without a revision. The 802.15 WG wishes to continue the new project features as part of the new revision project.”802.15.6a - Amendment: Dependable Human and Vehicle Body Area Networks, PAR Withdrawal and CSD

* 802.3cz - PAR Modification - [PAR Modification](https://mentor.ieee.org/802-ec/dcn/22/ec-22-0039-00-00EC-draft-ieee-p802-3cz-par-modification.pdf) and [CSD](https://mentor.ieee.org/802-ec/dcn/22/ec-22-0038-00-00EC-draft-ieee-p802-3cz-csd-modification.pdf)
* PAR
* No comments
* CSD:
* No comments
* 802.3dh - PAR - [PAR](https://mentor.ieee.org/802-ec/dcn/22/ec-22-0037-00-00EC-draft-ieee-p802-3dh-par.pdf) and [CSD](https://mentor.ieee.org/802-ec/dcn/22/ec-22-0036-00-00EC-draft-ieee-p802-3dh-csd.pdf)
* PAR
* No comments
* CSD:
* No comments
* The Chair will post the review comments in document 11-22/268r2 to the EC
1. Recess until Thursday March 17 at 09:00 at 14:00

# Thursday March 17, 09:00-10:00

### Jon Rosdahl, Qualcomm – Chair

### Michael Montemurro, Huawei Technologies Co., Ltd – Vice-Chair

Attendance: 5

**Amelia Andersdotter, Sky UK Group**

**Joseph Levy, InterDigital, Inc.**

**Stephen McCann, Huawei Technologies Co., Ltd**

1. Meeting called to order at 09:06
2. Agenda Review – approved as document 11-22/0268r2 - <https://mentor.ieee.org/802.11/dcn/21/11-22-0268-02-0PAR-par-review-sc-meeting-agenda-and-comment-slides-mar-2022-electronic-plenary.pptx>
	* Agenda is approved unanimously.
	* Any changes to the agenda will be captured in document 11-22/268r3
3. PAR and CSD comments are captured in 11-21/0268r3
	* **802.3dg - Amendment: Physical Layer Specifications and Management Parameters for 100Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors,**[**PAR**](https://mentor.ieee.org/802-ec/dcn/22/ec-22-0017-00-00EC-draft-ieee-p802-3dg-par.pdf)**and**[**CSD**](https://mentor.ieee.org/802-ec/dcn/22/ec-22-0018-00-00EC-draft-ieee-p802-3dg-csd.pdf)
* Accepted all comments on PAR
* **802.1DU - Standard for Cut-Through Forwarding Bridges and Bridged Networks,**[**PAR**](https://ieee802.org/1/files/public/docs2022/du-draft-PAR-0122-v01.pdf)**and**[**CSD**](https://ieee802.org/1/files/public/docs2022/du-draft-CSD-0122-v01.pdf)
* Delayed submission of the PAR
* PAR:
	+ Accepted all comments
* CSD:
* Accepted all comments
* **802.15.12 - Standard for Enhanced Ultra Wide-Band (UWB) Physical Layers (PHYs) and Associated MAC Enhancements,**[**PAR Withdrawal**](https://mentor.ieee.org/802.15/dcn/22/15-22-0048-00-0000-p802-15-12-par-withdraw.pdf)
* Document 15-22/167r3
* Closing report Doc: 22-0190-02-06a slide 8 contains the motion for the PAR withdrawal**.**
* Changes were not specified in their response.
* 802.15.6a - Amendment: Dependable Human and Vehicle Body Area Networks, [PAR](https://mentor.ieee.org/802.15/dcn/22/15-22-0067-00-0000-p802-15-6a-par-withdraw.pdf) and [CSD](https://mentor.ieee.org/802-ec/dcn/21/ec-21-0192-00-ACSD-p802-15-6a.pdf)
* Document 15-22/167r3
* PAR:
	+ Accepted all comments
* CSD:
	+ Accepted all comments
* **802-Rev – Standard – Overview and Architecture,**[**PAR Revision**](https://ieee802.org/1/files/public/docs2022/802-rev-draft-PAR-0122-v02.pdf)
* Document 1-22/0006r2
* **802.1Qdt - Amendment: Priority-based Flow Control Enhancements,**[**PAR**](https://ieee802.org/1/files/public/docs2022/dt-draft-PAR-0122-v01.pdf)**and**[**CSD**](https://ieee802.org/1/files/public/docs2022/dt-draft-CSD-0122-v01.pdf)
* PAR:
	+ Addressed all comments.
* CSD:
	+ Addressed all comments
* 802.15.6ma - Standard -  Wireless Body Area Networks, [PAR Revision](https://mentor.ieee.org/802.15/dcn/22/15-22-0088-00-006a-par-revision-draft.pdf) and [CSD](https://mentor.ieee.org/802.15/dcn/22/15-22-0087-01-006a-ieee-802-criteria-for-standards-development-for-p802-15-6ma-revision.docx)
	+ No changes were made based on comments.
	+ IEEE 802.15 WG said that they could update the PAR on submission based on the comments.
	+ Note that suggested changes should be discussed in the 802 EC Closing Plenary
	+ There is no link to the new PAR in the response.
* A summary for the 802.11 PAR review is captured on slide 44 of document 11-22/268r4
	+ The review comments are captured in document 11-22/268r3.
	+ Review summary in Final Report to 802.11
1. Approval of PAR Review SC report

**MOTION:**

**Move to accept the report contained in** [**https://mentor.ieee.org/802.11/dcn/21/11-22-0268-03-0PAR-par-review-sc-meeting-agenda-and-comment-slides-mar-1022-electronic-plenary.pptx**](https://mentor.ieee.org/802.11/dcn/21/11-22-0268-03-0PAR-par-review-sc-meeting-agenda-and-comment-slides-mar-1022-electronic-plenary.pptx) **as the report from PAR Review SC for the March 2022 802 Electronic Plenary.**

**Moved: Stephen McCann**

**2nd: Amelia Andersdotter**

**Results: Unanimoud. Motion Passes. (5 voters on the call)**

1. Adjourn at 09:44