

Liaison from the IEEE 802.11 Working Group to ITU-T Q18/15

TO: Les Brown, Rapporteur ITU-T Q18/15, lesbrown@sympatico.ca

FROM: Dorothy Stanley, IEEE 802.11 Working Group Chair, dstanley@ieee.org

CC:

- Konstantinos Karachalios, IEEE-SA Standards Board, Secretary, IEEE-SA Board of Governors sasecretary@ieee.org
- Paul Nikolich, IEEE 802 chair, p.nikolich@ieee.org
- Jon Rosdahl, Vice-chair, IEEE 802.11 WLAN Working Group jrosdahl@ieee.org
- Robert Stacey, Vice-Chair, IEEE 802.11 WLAN Working Group robert.stacey@intel.com
- Nikola Serafimovski, Chair Task Group bb, nikola.serafimovski@purelifi.com
- Jonathan Goldberg, IEEE 802 Program Manager, goldberg.j@ieee.org
- Jodi Haasz, Manager, IEEE Operational Program Management, j.haasz@ieee.org

SUBJECT: Potential usage of G.9991 PHY in the P802.11bb amendment and request for ITU-T copyright for the potential usage of ITU-T recommendations

DATE: 6 September 2019

PURPOSE: For Information

Dear Les,

The IEEE 802.11 Working Group is working on a Light Communications project, P802.11bb, to specify a new Physical layer and modifications to the IEEE 802.11 MAC that enable operation of wireless light communications (LC) [1].

In the July 2019 IEEE 802.11 Working Group meeting, several potential options for a suitable PHY were discussed. The G.9991 PHY was presented as one possible mode of operation for P802.11bb.

With this liaison letter, we would like to (a) inform you of the status of this discussion, (b) invite any feedback that you would have, and (3) to inform you that a request for copyright related to portions of ITU-T Rec. G.9991-2019, ITU-T Rec. G. 9960-2018, ITU-T Rec. G.9961-2018, and ITU-T Rec. G. 9963-2018 has been sent to the ITU Telecommunication Standardization Bureau (TSB) director. A copy of the request is attached.

Considering your potential interest in this area, we will keep you updated on the progress of our work.

Regards,

/s/

Dorothy Stanley (dstanley@ieee.org)

IEEE 802.11 Working Group Chair

[1] IEEE P802.11bb PAR document: <https://mentor.ieee.org/802.11/dcn/17/11-17-1604-10-00lc-a-par-proposal-for-light-communications.pdf>

Date of Next [IEEE 802.11 WG](#) Meetings:

15-20 September 2019: Hanoi, Vietnam

10-15 November 2019: Kona, HI, USA

Dorothy Stanley
IEEE 802.11 Working Group Chair
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2019-09-06

ITU Telecommunication Standardization Bureau (TSB)

TSB Director, tsbdir@itu.int

Dear TSB Director,

The IEEE 802.11 working group of the Computer Society of the IEEE is in the process of developing the standard document listed below:

P802.11bb Light Communications

We have reviewed your documents entitled ITU-T Rec. G.9991-2019, ITU-T Rec. G. 9960-2018, ITU-T Rec. G.9961-2018, and ITU-T Rec. G. 9963-2018 and would like permission to modify the text, figures, and tables indicated in Attachment A below, to use the material for standards development purposes relating to the IEEE Project noted above, including public review of the material for inclusion in our document.

We request your permission to include the indicated modified text, figures and tables in the IEEE standard. The IEEE requests non-exclusive, irrevocable, royalty-free permission, and requires world rights for distribution and permission to modify and reprint in future revisions and editions of the resulting draft and approved IEEE standard and in derivative works based on the standard, in all media known or hereinafter known. A standard credit line will be used unless specific text is provided. If you do not hold the copyright for this material, please inform us of this and, if possible, of the name of the actual copyright holder. The form that should be used to grant permission, "Permission Response to IEEE_6Mar2017.doc" is attached for your convenience. The form should be returned to the IEEE on company letterhead, where applicable.

Thank you for your attention to this matter. I look forward to hearing from you soon.

Sincerely,

Dorothy Stanley, dstanley@ieee.org

Attachment A

ITU-T Rec. G.9991-2019

8. Physical layer specification I (PHY layer based on ITU-T G.9960)

8.2. Medium dependent specification

8.2.1 Physical layer specification

Figures 8-1, 8-2

ITU-T Rec. G. 9960-2018

5.2.4 Bit ordering convention

7. Physical layer specification

7.1. Medium independent specification

7.1.2 Physical coding sublayer (PCS)

7.1.3 Physical medium attachment (PMA) sublayer

7.1.4 Physical medium dependent (PMD) sublayer

7.2. Medium dependent specification

7.2.3 Physical layer specification over coax

Annex C.2.3 Medium dependent specification over coax

Annex G: Test vectors

Figures 5-13, 7-2, 7-3, 7-4, 7-5, 7-6, 7-7, 7-8, 7-9, 7-10, 7-11, 7-12, 7-13, 7-14, 7-16, 7-17, 7-18, 7-19, 7-20, 7-21, 7-22, 7-23.

ITU-T Rec. G.9961-2018

8.9 Retransmission and acknowledgement protocol

8.18 Inter-bandplan interoperability

8.20 Metrics acquisition

8.21 Operation in power saving modes

ITU-T Rec. G. 9963-2018

7. Physical layer specification

7.1. Medium independent specification

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7.1.4 Physical medium dependent (PMD) sublayer

7.2. Medium dependent specification

Figures 7-2, 7-3, 7-4, 7-5, 7-6, 7-7, 7-8, 7-9, 7-10, 7-11