IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGbb Task Group on Light Communications  TGbb March Meeting Minutes | | | | |
| Date: 2021-03-11 | | | | |
| Author: | | | | |
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| Nancy Lee | Signify |  |  |  |

Abstract

This document contains the Task Group on Light Communications (TGbb) March plenary meeting minutes

**IEEE 802.11 Task Group TGbb**

**Monday, March 8, 2021, 11:15AM (ET)**

1. The IEEE 802.11 TGbb meeting was called to order at by the Chair, Nikola Serafimovski (pureLiFi). Tuncer Baykas (Hyperion) as a temporary secretary recorded the minutes.

1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
   * No essential patents are claimed.
   * It is reminded all to record their attendance through the IMAT system.
2. The Chair introduced the overall agenda in doc. 11-21/216r1 for the meeting.
3. **TGbb Motion** to approve the agenda in 11-21/216r1.

**Motion approved unanimously.**

1. 11-21/0380r0 is presented by Nancy Lee.

Q: Is the text clear for the editor?

A: Yes

C: If no comments, the content will be added after a motion.

1. 8. Chong Han presented 11-21/0277r3

C: OFDM\_PHY should be mentioned in line 17.

C: 802.11a shoudn’t be mentioned.

C: After the changes the document will be voted.

1. Chong Han presented 11-21/0276r3

C: Personally we do not have mesh.

C: For us mesh is not a facility

C: 11-21/0276r3r4 uploaded

C: Editor to check if not for LC or not LC facility should be used.

1. Chong Han presented 11-21/0278r3

C:All security methods should be stated in the standard.

C: The sentence allows using not so secure methods.

C: We shouldnt play with the security of the 802.11

C: WAP shouldn’t be used.

C: Current changes in 802.11 made this text obsolete.

C: No change is necessary in the draft.

1. Chong Han presented 11-21/0279r3

Clean copy with changes accepted uploaded as 279r4

will be a motion to add r4

1. Nancy Lee presented 11-21/0378r0

C: TBDs for LC PHY functions for LCO mode should be added as an editorial note.

C: Clause 8 includes CCA reset , which may not be supported by LC STA. How to capture that carrier sensing is not supported?

C: An RTS/CTS mechanism is necessary for LC PHYs.

C: RTS/CTS is not CCA.

C: No more changes in the document.

C: There wiil be a motion to add r1 of this document.

1. Chong Han presented 11-21/0389r0

C: It includes the changes.

C: We can do a comment resolution.

C: We can accept proposed changes.

1. Volker Jungnickel as technical editor presented 11-21/0389r1 for comment resolution

C: The pdf should be used to find the comment locations.

C: Resolution is added to comment 1.

C: Resolution is added for comment 2

C: Why the scrambler needed should be discussed.

C: There is no consensus fort he second part of the comment.

C: More discussion could be made about CCA.

C: It is recommended to skip it.

C: Resolution for comment 2 will stay tbd.

C: Comment 5 resolution is provided.

C: Comment 6 resolution is provided.

C: Comment 7 resolution is provided.

C: Comment 8 resolution is provided

C: Comment 9 resolution is provided.

1. Group is in recess.

**Tuesday, March 9, 2021, 9:00AM (ET)**

1. The IEEE 802.11 TGbb meeting was called to order at by the Chair, Nikola Serafimovski (pureLiFi). Tuncer Baykas (Hyperion) as a temporary secretary recorded the minutes.

1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
   * No essential patents are claimed.
   * It is reminded all to record their attendance through the IMAT system.
2. The Chair introduced the overall agenda in doc. 11-21/216r2 for the meeting.
   * TGbb Timeline discussion is added.
   * Motion to approve agenda
   * Motiing is approved with unanimous consent.
3. Editor reported feedback from WG editors on 11-21/0276r3, that it’s not needed
4. Volker Jungnickel as editor presented 11-21/0389r2 for comment resolution
   * Comment 10 is discussed..
   * Comment 10 resolution is provided.
   * Comment 11 is discussed. A new resolution is provided.
   * Comment 12, new resolution is provided
   * Comment 13 resolution is accepted.
   * Comment 14 resolution is accpeted
   * Comment 15 new resolution is provided.
   * Comment 2 a new resolution is provided
   * Comment 3 a new resolution is provided
   * Comment 4 comment is rejected.
5. Volker Jungnickel (Fraunhofer) as editor will upload comment resolution 11-21/0389r2.

1. Chong Han (Purelifi) presented 11-21/0280r1
   * Q:How does AP retransmit package withot delay.
   * A:It is done in the analog stage. Without decoding.
   * Transmission is from STA1 to AP
   * Energy detect and Carrier Sense methods are used in CCA and they have two different tresholds.
   * Which information is sent?
   * AP will send a noise.
   * STAs would randomly back off.
   * Provide where you want to add the change.
   * Thresholds should be provided
   * New Nomenclature should be used
   * We don’t have any text describing full duplex operation.
   * AP and STA2 are transmitting at the same time.
   * Full duplex transmission should be explained
   * The paragraph and the text does not match.
   * Are there different wavelegths are used in the text?
2. Harry Bims (Bims Lab) presented 11-21/0342r3
   * Thank you for introduction RTS CTS
   * It is MAC sublayer mechanisim but CCA is a PHY layer mechanism.
   * It may be put another section.
3. Group is in recess.

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| **Wednesday, March 10, 2021, 9:00AM (ET)** |  |
| 1. The IEEE 802.11 TGbb meeting was called to order at by the Chair, Nikola Serafimovski (pureLiFi). Tuncer Baykas (Hyperion) as a temporary secretary recorded the minutes.      1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.    * No essential patents are claimed.    * It is reminded all to record their attendance through the IMAT system. 2. Harry Bims (Bims Lab) continue his presentation of 11-21/0342r3    * Q: Where should we put this part?    * A: Since we are generating CTS frame we need to put in MAC section.    * A follw up submission would be good to determine further details, such as the transmit powerof the AP.    * An interactive discussion would be beneficial.    * We can write down all the ideas.    * Different proposals can be collected together. 3. Nancy Lee (Signify) presented 11-21/0379r0.    * We can write down all the ideas.    * The end state can be discussed.    * Multiple transmitter and receiver will be still possible    * Agreed to transfer comments to an Excel comment sheet in a new submission (11-21/0432r0) 4. Nancy Lee (Signify) presented 11-21/0381r0.    * We can write down all the ideas.    * The end state can be discussed.    * Is slide 14, what you are proposing?    * Slide 14 is a potential addtion.    * If we define operating classes, it would be important    * C: This should be included and we should dicuss it later in detail.    * We can have a meeting at a time when 802.11be is not meeting.    * Agreed to transfer comments to an Excel comment sheet in a new submission (11-21/0432r0) 5. Nancy Lee (Signify) presented 11-21/0382r0.    * We had a contribution 11-19/0388r0    * Adding the preamble was disccused.    * One point was why LC needs this legacy values.    * 6 GHz includes this legacy.    * How the duration in the MAC frame is used?    * If the summary is not acceptable, such as using CS/CCA, we may need to find new methods.    * Contributors are open to new solutions.    * Could you explain trigger based solution?    * We won’t use the CCA solutions.    * Scheduling based solutions may not fit to current chip designs.    * We shouldn’t break with the interoperability with existing chipsets.    * Packets can be divided into PPDUs and sent to increase throughput. 6. Group discussed the timeline. Volker Jungnickel presented 11-21/181r0 and 11-18/1290r7    * We may need more recirculations.    * Another line can be added to include another recirculation.   **Thursday, March 11, 2021, 11:15AM (ET)**   1. The IEEE 802.11 TGbb meeting was called to order at by the Chair, Nikola Serafimovski (pureLiFi). Tuncer Baykas (Hyperion) as a temporary secretary recorded the minutes.      1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.    * No essential patents are claimed.    * It is reminded all to record their attendance through the IMAT system. 2. The Chair introduced the overall agenda in doc. 11-21/216r3.    * Motion to change agenda is approved with unanimous consent. 3. Volker Jungnickel as editor presented 11-21/432r0    * Is it analog or the baseband?    * At the moment it is only baseband but later it will be discussed in analog.    * Comment CCI 1, comment is resected    * Comment CCI 2 a revised solution is provided.    * Comment CCI 3 kept open.    * Comment CCI 4 resolution is accepted.    * Comment CCI 5 resolution is accepted.    * Comment CCI 6 revised resolution is accepted.    * Comment CCI 7 revised resolution is accepted.    * Comment CCI 8 : For operating number ANA (Assigned Number Authority) is put and afterwards 802.11 ANA will determine those numbers.    * Comment CCI 9 : Group discussed 381r0 for channel numbering.We are trying to align LC channel numbering with 802.11ax    * Channel number values may not directly affect how you use it.    * Fixed offset is necessary. Approach 1 or 2 does not effect much.    * It can be changed afterwards.    * Comment CCI 3 is rejected    * Volker Jungnickel (Fraunhofer) as editor will upload comment resolution 11-21/0432r1 4. Motion to Approve the minutes from the Jan. 2021 interim meeting, specifically: doc. 11-21/0116r0   By:Matthias Wendt  Seconded By:Tuncer Baykas  Motion is approved with unanimoous consent   1. Motion to Approve the minutes between the Jan. 2021 and the Mar. 2021 meeting, specifically:   doc. 11-21/0376r0  doc. 11-21/0244r0  doc. 11-21/0243r0  By:Matthias Wendt  Seconded By:Tuncer Baykas  Motion is approved with unanimous consent   1. Motion to Instruct the Technical Editor to include the proposed draft text on page 3 of doc. 11-21/0380r0 LC terminology definitions and incorporate the changes into Draft 0.4.   By: Kai Lennert Bober  Seconded by: Matthias Wendt  Motion is approved with unanimous consent   1. Motion to Instruct the Technical Editor to replace the text on page 13 lines 10-18 of clause 4 (General description) in Draft 0.3 with:   “4.3 Components of the IEEE Std 802.11 architecture  *Insert a new subclause after subclause 4.3.29 (Ethertype protocol discrimination (EPD)) as follows:*”  Followed by the text in doc.11-21/0277r4 and incorporate the changes into Draft 0.4.  By: Harry Bims  Seconded by: Nancy Lee  Motion is approved with unanimous consent   1. Motion to Instruct the Technical Editor to replace page 14 lines 2-7 in Clause 31 (LC MAC specification) of Draft 0.3 with the text in doc. 11-21/0279r4 page 2 and incorporate the changes into Draft 0.4.   By: Harry Bims  Seconded by: Nancy Lee  Motion is approved with unanimous consent   1. Motion to Instruct the Technical Editor to follow the instructions and content provided in doc. 11-21/0378r1 and incorporate the changes into Draft 0.4.   By: Mathias Wendt  Seconded by: Nancy Lee  Motion is approved with unanimous consent   1. Motion to Instruct the Technical Editor to apply the comment resolutions in doc. 11-21/0389r2 and incorporate the changes into Draft 0.4.   Move: Harry Bims  Second: Volker Jungnickel  Motion is approved with unanimous consent   1. Motion to Instruct the Technical Editor to apply comment resolutions in doc. 11-21/0432r1 Comments on light interface and channel number and incorporate the changes into Draft 0.4.   Move: Matthias Wendt  Second: Volker Jungnickel  Motion is approved with unanimous consent   1. Motion to Approve the proposed timeline revision for TGbb in doc. 11-18/1290r8   Move: Volker Jungnickel  Second: Matthias Wendt  Motion is approved with unanimous consent   1. Group discussed teleconference times.   Proposed dates   * 29 March at 11:00 EST * 12 April at 11:00 EST * 26 April at 11:00 EST   It will be suggested to the working group.   1. Group need to specifiy the turnout time. 2. Motion to adjourn approved by unanimous consent. |  |
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