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 BaykasMotion is approved with unanimoous consent 1. Motion to Approve the minutes between the Jan. 2021 and the Mar. 2021 meeting, specifically:

doc. 11-21/0376r0doc. 11-21/0244r0doc. 11-21/0243r0By:Matthias Wendt Seconded By:Tuncer BaykasMotion 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 BoberSeconded by: Matthias WendtMotion is approved with unanimous consent1. 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 BimsSeconded by: Nancy LeeMotion 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 BimsSeconded by: Nancy LeeMotion 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 WendtSeconded by: Nancy LeeMotion 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 BimsSecond: Volker JungnickelMotion 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 WendtSecond: 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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