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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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

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

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

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

C:

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. Nancy Lee presented 11-21/0378r0

C: LCPHY functions for LCO mode should be added as an editorial not.

C: Clause 8 includes CCA reset , which may noy be supported by LC STA. How to capture that carier 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 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. Volker Jungnickel 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.
4. Volker Jungnickel (Fraunhofer) 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
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 importantç
	* 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.
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. ???

**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. The Chair introduced the overall agenda in doc. 11-21/216r3.
	* Motion to change agenda is approved with unanimous consent.
3. Volker Jungnickel presented 11-21/432r0
	* Groups will upadet the document and will upload as 11-21/432r1
	* 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 effecthow 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
4. 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. 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. 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 architectureInsert 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:Kai Lennert BoberSeconded by: Matthias WendtMotion is approved with unanimous consent 1. 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. ….

Harry BimsNancy LeeMotion is approved with unanimous consent 1. Instruct the Technical Editor to follow the instructions and content provided in doc. 11-21/0378r1 and incorporate the changes into Draft 0.4. ….

Harry BimsNancy LeeMotion is approved with unanimous consent 1. 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. 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. 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. Instruct the technical editor ….

Matthias Wendt Volker JungnickelMotion is approved with unanimous consent 1. Approve the proposed timeline ….

Volker JungnickelMatthias WendtMotion is approved with unanimous consent 1. Group discussed teleconference times.

Proposed dates * 29 March at 11:00 EST
* 12 April at 11:00 EST
* 2 May 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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