IEEE P802.11
Wireless LANs

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| 802.11ba Teleconference Minutes Aug 2019 |
| Date: 19-08-26 |
| Author(s): |
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| Po-Kai Huang | Intel  |  |  |  |

Abstract

This document contains minutes from TG 802.11ba teleconference in Aug 2019.

Rev 0: Minutes for TG 802.11ba teleconference on 19th of Aug. 2019.

Rev1: Minutes for TG 802.11ba teleconference on 26th of Aug. 2019 added.

Rev 2: Minutes for TG 802.11ba teleconference on 9th of Sept. 2019 added.

**Teleconference on Monday, Aug 19, 2019, 2:00 –4:00 pm (PST)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (link at the end of the email)
4. Attendance: send email to the chair or Po-kai Huang (po-kai.huang@intel.com
5.Presentations

   - 19/1065r1 – “PHY CR for Clause 30”, Vinod Kristem (Intel Corporation)

6. Adjourn

Please note that teleconferences are bound by the conditions stipulated by the documentation below.  Please review them and bring up any questions/concerns you may have before proceeding with the teleconference:

IEEE Patent Policy - <http://standards.ieee.org/board/pat/pat-slideset.ppt>
Patent FAQ - <http://standards.ieee.org/board/pat/faq.pdf>
LoA Form - <http://standards.ieee.org/board/pat/loa.pdf>
Affiliation FAQ - <http://standards.ieee.org/faqs/affiliationFAQ.html>
Anti-Trust FAQ - <http://standards.ieee.org/resources/antitrust-guidelines.pdf>
Ethics - <http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf>
IEEE 802.11 Working Group Operations Manual –
<https://mentor.ieee.org/802.11/dcn/09/11-09-0002-16-0000-802-11-operations-manual.doc>

The conduct of this meeting is governed by IEEE, IEEE-SA and IEEE LMSC policies, which include:
- IEEE Patent Policy
- Ethics
- 802 LMSC P&P
- 802LMSC Operations Manual (OM) Links to the documents or web-pages describing the policies may be found here: <http://www.ieee802.org/11/Rules/rules.shtml>.
The following documents provide additional information on the governing IEEE-SA policies:
- Patent FAQ (<http://standards.ieee.org/faqs/patents.pdf>)
- Affiliation FAQ (<http://standards.ieee.org/faqs/affiliation.html>)
- Anti-Trust FAQ (<http://standards.ieee.org/develop/policies/antitrust.pdf>)
In addition, the conduct of this meeting is governed by IEEE 802.11 Operations Manual (OM), which is also linked from here: <http://www.ieee802.org/11/Rules/rules.shtml>.

1. **Chair Minyoung Park (Intel) calls the meeting to order at 02:05 pm (PST).**
2. Minyoung goes through the proposed agenda and asks it there are any questions or additional items that should be added. No questions asked so the proposed agenda will be used.
3. Minyoung reminds about the IEEE patent policy and directs people to the links provided in the call in case of questions about the IEEE 802 and 802.11 Policy and Procedure.
4. Minyoung reminds about attendance.

**19/1065r1 – “PHY CR for Clause 30: Vinod (This presentation includes the following CIDs 3021, 3022, 3125, 3024, 3088, 3132, 3239, 3321, and 3322.)**

3021: No Discussion

3022: No Discussion

3125: No Discussion

3024:

Q (Yunsong): Comment on 3024. Is the iBW index correct?

A (Vinod): I just use the current notation.

Q : I think there is a difference. Some of the index inside the equation should be jBW.

A (Vinod): Agree and make the change.

3088: No Discussion

3132: No Discussion

3239: No Discussion

3321:

Q (Rui): Subcarrier coefficient is weird?

A (Vinod): subcarrier coefficient is already used in the current spec.

Q (Rui): Maybe just use coefficient to align with the context.

A (Vinod): ok

Q (Rui): Subcarrier index mapping is weird. Probably just subcarrier allocation.

A (Vinod): ok

Q (Yunsong): Why there is no box for the first one?

A (Vinod): This is just input rather than functionality.

3322: No Discussion

Presenter will upload r2 and ready for motion.

1. **Meeting is adjourned at 2.33 pm (PST).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Po-Kai Huang | Intel |
| 3 | Vinod Kristem | Intel |
| 4 | Yunsong Yang | Self |
| 5 | Rui Yang | Interdigital |
| 6 | Jeongki Kim  | LGE |

**Teleconference on Monday, Aug 26, 2019, 11:00 pm –1:00 am (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (link at the end of the email)
4. Attendance: send email to the chair or secretary (leif.r.wilhelmsson@ericsson.com)
5.Presentations

   - 19/1435 MAC-CR-Fixes to WUR Vendor Specific frame (Alfred Asterjadhi, Qualcomm Inc.) - 1 CID

   - 19/1433 MAC-CR-For CID 3012 (Alfred Asterjadhi, Qualcomm Inc.) - 1 CID
   - 19/1431 MAC-CR-BIP amendments for protected WUR frames (Alfred Asterjadhi, Qualcomm Inc.) - 2 CIDs
   - 19/1430 MAC-CR-Capabilities for protected WUR frames (Alfred Asterjadhi, Qualcomm Inc.) - 4 CIDs
   - 19/1060 MAC-CR-Clause 29.10 (Alfred Asterjadhi, Qualcomm Inc.) - 7 CIDs

      -  11-19-1166-00-00ba-cr-for-wur-power-management – (Po-Kai Huang, Intel Corp.)

          - 11-19/1445r0, CR for 29.4 (<https://mentor.ieee.org/802.11/dcn/19/11-19-1445-00-00ba-cr-for-29-4.docx> ) - (Woojin Ahn, WILUS) - 4 CIDs

          - 11-19/1447r0, CR for WUR frame format (<https://mentor.ieee.org/802.11/dcn/19/11-19-1447-00-00ba-cr-for-wur-frame-format.docx>) -(Woojin Ahn, WILUS)- 17 CIDs

6. Adjourn

Teleconferences are subject to applicable policies and procedures, see below.
•       IEEE Code of Ethics
–       <https://www.ieee.org/about/corporate/governance/p7-8.html>
•       IEEE Standards Association (IEEE-SA) Affiliation FAQ
–       <https://standards.ieee.org/faqs/affiliation.html>
•       Antitrust and Competition Policy
–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>
•       IEEE-SA Patent Policy
–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>
–       <https://standards.ieee.org/about/sasb/patcom/>
 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)
–       [http://www.ieee802.org/PNP/approved/IEEE\_802\_WG\_PandP\_v19.pdf](https://protect2.fireeye.com/url?k=ec7e0bf1-b0f4df30-ec7e4b6a-863d9bcb726f-d711e869fc93243a&q=1&u=http%3A%2F%2Fwww.ieee802.org%2FPNP%2Fapproved%2FIEEE_802_WG_PandP_v19.pdf)
•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)
–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>
•       Participation in IEEE 802 Meetings
–       <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)
–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **Chair Minyoung Park (Intel) calls the meeting to order at 11:02 pm (ET).**
2. Minyoung goes through the proposed agenda and asks it there are any questions or additional items that should be added. Woojin asks if he can present first as he may have to leave early.

Minyoung asks if this is OK with everyone on the call or if there is any objection. Nobody objects, so the agenda is updated accordingly.

No further discussion on the agenda, so the updated agenda will be used.

1. Minyoung reminds about the IEEE patent policy and directs people to the links provided in the call in case of questions about the IEEE 802 and 802.11 Policy and Procedure.
2. Minyoung reminds about attendance.
3. **Presentations:**

**11-19/1445r1, “CR for 29.4”, Woojin Ahn (WILUS):** This submission proposes resolutions for comments related to TGba D3.0 with the following CIDs (4 CIDs):

* 3077, 3117, 3154, 3209

CID 3077: No discussion.

CID 3117: No discussion.

CID 3154: No discussion.

CID 3209: No discussion.

Question/Comment (Q): Returning to CID 3154, to me the proposed resolution seems reasonable, I just want to understand the reason for rejecting it.

After some discussion and looking at the submission of the comment and the corresponding proposed change, it appeared as if the proposed change was not properly captured in document 14445r1. As a result, it was decided to defer CID 3154 and to discuss further with the commenter.

11-19/1445r2, containing 3 CIDs, will be ready for motion (CID 3154 deferred)

**11-19/1447r1, “CR for WUR frame format”, Woojin Ahn (WILUS):** This submission proposes resolutions for comments related to TGba D3.0 with the following CIDs (17 CIDs):

* 3210, 3392, 3175, 3393, 3111, 3369, 3394, 3260, 3370, 3371, 3395, 3261, 3397, 3046, 3398, 3176, 3368

CID 3210: No discussion.

CID 3392: No discussion.

CID 3393: Q: Have you talked to Menzo about this? Menzo is overall responsible for this area.

 Answer (A): No.

 Q: I believe there is not technical conflict in the proposed resolution

 The commenter adds that he is OK with the proposed resolution.

 After some discussion it is decided to defer this CID as well as CID 3392.

CID 3175: Deferred.

CID 3111: No discussion.

CID 3369: No discussion.

CID 3394: No discussion.

CID 3260: No discussion.

CID 3370: No discussion.

CID 3395: No discussion.

CID 3371: No discussion.

CID 3261: No discussion.

CID 3397: No discussion.

CID 3046: No discussion.

CID 3398: No discussion.

CID 3176: No discussion.

CID 3368: No discussion.

Q: You have some more CIDs assigned, but will not be able to attend the f2f?

A: These CID have been transferred to another person.

Q: Is this documented so that Po-Kai knows about this?

A: Yes.

11-19/1447r2 will be ready for motion (CIDs 3392, 3393, and 3175 are deferred).

**11-19/1435r0, “Comment resolutions for WUR Vendor Specific frame”, Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D3.0 with the following CIDs (1 CID):

* 3399

CID 3399: Based on some comments the text is slightly updated.

11-19/1435r1 will be ready for motion.

**11-19/1433r1, “Comment resolutions for CID 3012”, Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D3.0 with the following CIDs (1 CIDs):

* 3012

CID 3012:

Q: Do you want to use WUR beacon for “keep alive”?

A: Yes.

Q: Can this potentially cause problem if you have WUR beacons at regular intervals?

A: No.

Q: There is no intention to define specific “keep alive” messages.

A: Correct.

Q: Does this also apply to FDMA?

A: To be honest, I did not even consider FDMA.

11-19/1433r2 will be ready for motion.

**11-19/1431r1, “Comment resolutions for BIP amendments for protected WUR”, Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D3.0 with the following CIDs (2 CIDs):

* 3402, 3403

CID 3402: No discussion.

CID 3403: Based on discussion, the proposed text is slightly modified.

11-19/1431r2 will be ready for motion.

**11-19/1430r1, “Comment resolutions for capabilities for protected WUR frames”, Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D3.0 with the following CIDs (4 CIDs):

* 3264, 3359, 3037, 3404

CID 3264: No discussion.

CID 3359: No discussion.

CID 3037: No discussion.

CID 3404: No discussion.

11-19/1430r1 is ready for motion.

1. **Meeting is adjourned at 0.59 am (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Al Petrick  | Jones-Petrick and Associates |
| 5 | Yunsong Yang | Self |
| 6 | Woojin Ahn | WILUS |
| 7 | John Son | WILUS |
| 8 | Rojan Chitrakar | Panasonic |
| 9 | Alfred Asterjadhi | Qualcomm |
| 10 | Lei Huang  | Panasonic |

**Teleconference on Monday, Sep 9, 2019, 5:00 pm –7:00 am (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (link at the end of the email)
4. Attendance: send email to the chair or secretary (leif.r.wilhelmsson@ericsson.com)
5.Presentations
  - 19/1060 MAC-CR-Clause 29.10 (Alfred Asterjadhi, Qualcomm Inc.) - 7 CIDs
  - 11-19-1166-00-00ba-cr-for-wur-power-management – (Po-Kai Huang, Intel Corp.)

  - 19/1465r0 CR for Miscellaneous CIDs – (Po-Kai Huang, Intel Corp.)
     (<https://mentor.ieee.org/802.11/dcn/19/11-19-1465-00-00ba-cr-for-miscellaneous-cids.docx>)
6. Adjourn

Teleconferences are subject to applicable policies and procedures, see below.
•       IEEE Code of Ethics
–       <https://www.ieee.org/about/corporate/governance/p7-8.html>
•       IEEE Standards Association (IEEE-SA) Affiliation FAQ
–       <https://standards.ieee.org/faqs/affiliation.html>
•       Antitrust and Competition Policy
–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>
•       IEEE-SA Patent Policy
–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>
–       <https://standards.ieee.org/about/sasb/patcom/>
 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)
–       [http://www.ieee802.org/PNP/approved/IEEE\_802\_WG\_PandP\_v19.pdf](https://protect2.fireeye.com/url?k=ec7e0bf1-b0f4df30-ec7e4b6a-863d9bcb726f-d711e869fc93243a&q=1&u=http%3A%2F%2Fwww.ieee802.org%2FPNP%2Fapproved%2FIEEE_802_WG_PandP_v19.pdf)
•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)
–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>
•       Participation in IEEE 802 Meetings
–       <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)
–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **Chair Minyoung Park (Intel) calls the meeting to order at 5:14 pm (ET).**

The start of the meeting is slightly delayed due to issues with Join Me.

1. Minyoung goes through the proposed agenda and asks it there are any questions or additional items that should be added. Alfred is still not on the call so it is decided that Po-Kai will start instead.

No further discussion on the agenda.

1. Minyoung reminds about the IEEE patent policy and directs people to the links provided in the call in case of questions about the IEEE 802 and 802.11 Policy and Procedure.
2. Minyoung reminds about attendance.
3. **Presentations:**

**11-19/1166r0, “11ba D3.0 MAC Comment Resolution for WUR Power Management”, Po-Kai Huang (Intel):** This submission proposes resolutions for comments of TGba Draft D3.0 with the following CIDs:

3034, 3171, 3135, 3160, 3122, 3123, 3310, 3299, 3300, 3302, 3202, 3200, 3149, 3082, 3298, 3083, 3084, 3085, 3150, 3152, 3153

CID 3034: No discussion.

CID 3171: No discussion.

CID 3135: No discussion.

CID 3160: No discussion.

CID 3122: No discussion.

CID 3123: No discussion.

CID 3310: No discussion.

CID 3299: No discussion.

CID 3300: Slight update based on discussion.

CID 3302: No discussion.

CID 3202: No discussion.

CID 3200: No discussion.

CID 3149: No discussion.

CID 3082: No discussion.

CID 3298: No discussion.

CID 3083: No discussion.

CID 3084: “was” is changed to “is” in the proposed resolution

CID 3085: The proposed resolution as well as the motivation for it are slightly updated.

CID 3150: No discussion.

CID 3152: No discussion.

CID 3153: No discussion.

Document 11-19/1166r1 will be ready for motion.

**11-19/1060r1, “Comment resolutions for Clause 29.10”, Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D3.0 with the following CIDs (7 CIDs):

* 3277, 3278, 3411, 3412, 3413, 3414, 3415

CID 3277: No discussion.

CID 3278: Not resolved yet.

CID 3411: No discussion.

CID 3412: No discussion.

CID 3413: No discussion.

CID 3414: No discussion.

CID 3415: No discussion.

Document 11-19/1060r1 is ready for motion. CID 3278 is deferred.

**11-19/1465r0, “11ba D3.1 MAC Comment Resolution for Miscellaneous CIDs”, Po-Kai Huang (Intel):**  This submission proposes resolutions for comments of TGba Draft D3.1 with the following CIDs:

3028, 3138, 3141, 3095, 3174

CID 3028: No discussion.

CID 3138: No discussion.

CID 3141: No discussion.

CID 3095: No discussion.

CID 3174: No discussion.

Document 11-19/1465r0 is ready for motion,

1. **The meeting is adjourned at 6.48 pm.**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Yunsong Yang | Self |
| 6 | George Calcev | Futurewei Technologies |
| 7 | Xiaofei Wang | Interdigital |
| 9 | Alfred Asterjadhi | Qualcomm |