IEEE P802.11
Wireless LANs

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| 802.11ba Teleconference Minutes May 2020 |
| Date: 2020-05-04 |
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Abstract

This document contains minutes from TG 802.11ba teleconference in May 2020.

Rev 0: Minutes for TG 802.11ba teleconference on 4th of May.

Rev 1: Minutes for TG 802.11ba teleconference on 11th of May added.

Rev 2: Some typos related to the time of the telco corrected.

Rev 3: Minutes for TG 802.11ba teleconference on 18th of May added.

**Teleconference on Monday, May 4 2019, 11:00pm –1:00am (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
	1. Use IMAT to register your attendance
5. Motions
	1. 802.11-20/635r0 – editorial comments
	2. 802.11-20/614r1 - CID 7002
	3. 802.11-20/628r1 – CIDs 7005, 7006, 7051, 7052
6. Presentations
	1. 11-20/0600r0 - CRs for D6.0 WUR Discovery CIDs, Rojan Chitrakar (Panasonic)
	2. 11-20/0601r0 - CRs for D6.0 WUR Frame Protection CIDs, Rojan Chitrakar (Panasonic)
	3. 11-20/0636r0 - CR for WUR Beacon, Po-Kai Huang (Intel)
	4. 11-20/0692r0 CR for Editorial 7109, Po-Kai Huang (Intel)
	5. 11-20/0679r0 - CR for misc. CIDs, Minyoung Park (Intel)
7. Adjourn

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•       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/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&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 11:03pm (ET).**
2. Minyoung goes through the proposed agenda, which also can be found in document 11-20/0695r0, and asks it there are any questions or additional items that should be added. No discussion on the agenda, so the agenda will be used. Minyoung explains that he will also use this document to capture the motions.
3. Minyoung reminds about the IEEE patent policy related matters and directs people to the links provided in the invitation and also shown above.
4. Minyoung reminds about attendance.
5. Motions:

**Motion# 7002 [Editorial Comments]**

Move to accept the comment resolutions in 11-20/0635r0 for the editorial comments:

**Move:** Po-Kai Huang

**Second:** Rojan Chitrakar

Motion passes with unanimous consent

**Motion# 7003**

Move to accept the comment resolution in 11-20/0614r1 for CIDs listed below:

* 1. 7002

**Move:** Steve Shellhammer

**Second:** Po-Kai Huang

Motion passes with unanimous consent

**Motion# 7004**

Move to accept the comment resolution in 11-20/0628r1 for CIDs listed below:

* 1. 7005, 7006, 7051, 7052

**Move:** Po-Kai Huang

**Second:** Rojan Chitrakar

Motion passes with unanimous consent

1. Presentations:

**11-20/0600r0, “Comment Resolutions for D6.0 WUR Discovery CIDs”, Rojan Chitrakar (Panasonic):** This submission proposes resolutions of comments received from TGba SA1 comment collection (TGba Draft 6.0).

* CIDs: 7027 (1 CID)

CID 7027: No discussion. Rojan mention that he has emailed the commenter and clarified the reason for rejecting comment.

Document 11-20/0600r0 is ready for motion

**11-20/0601r1, “Comment Resolutions for D6.0 WUR Frame Protection CIDs”, Rojan Chitrakar (Panasonic):** This submission proposes resolutions of comments received from TGba SA1 comment collection (TGba Draft 6.0).

* CIDs: 7058, 7060, 7061, 7062, 7063, 7064, 7088, 7115 (8 CIDs)

Rojan informs that this document has been discussed over email with people showing interest in these comments.

CID 7058: After some discussion the resolution is changed from accepted to revised after a slight update.

CID 7060: Some discussion of minor editorial error and then a discussion about that one can interpret a broadcast frame as intended to everyone. A note is added to clarify this. Since people do still not completely agree with the wording, it is decided to defer this CID.

CID 7061: No discussion.

CID 7062: This appears to be just a duplication of CID 7060 and is therefore also deferred.

CID 7063: A rather length discussion about how to replace the word “installed” as it is pointed out that it cannot be determined when something is installed. One idea is to replace the word with “distributed”, but since some keys are not distributed but derived locally this is not OK. It is decided to defer this CID.

CID 7064: No discussion.

CID 7115: Question/Comment (Q): I don’t think this is needed. It is clear as it is.

 Answer (A): I agree, but it does not hurt so I decided to accept the comment.

CID 7088: The CID is deferred. Po-Kai will check with Jouni and Dan Harkins to get them involved to more this one forward.

Document 11-20/0601r2 containing 4 CIDs (7058,7061,7064, and 7115) will be ready for motion.

**11-20/0692r0, “11ba D6.0 Comment Resolution for editorial 7109”, Po-Kai Huang (Intel):**

This submission proposes resolutions for comments of TGba Draft D6.0 with the following CIDs: 7109

CID 7109: No discussion.

11-20/0692r1 will be ready for motion.

1. **The meeting is adjourned at 01:00am (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Steve Shellhammer | Qualcomm |
| 5 | Yunsong Yang | Futurewei |
| 6 | Vinod Kristem | Intel |
| 7 | Rojan Chitrakar | Panasonic |
| 8 | Peter Yee | NSA-CSD |

**Teleconference on Monday, May 11 2019, 10:00-12:00am (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
	1. Use IMAT to register your attendance
5. Motions
	1. 11-20/0600r0 - CRs for D6.0 WUR Discovery CIDs
	2. 11-20/0601r2 - CRs for D6.0 WUR Frame Protection CIDs – 4 CIDs
	3. 11-20/0692r0 CR for Editorial 7109
6. Presentations
	1. 11-20/0601r? - CRs for D6.0 WUR Frame Protection CIDs, Rojan Chitrakar (Panasonic) – 4 CIDs deferred
	2. 11-20/0636r0 - CR for WUR Beacon, Po-Kai Huang (Intel)
	3. 11-20/0679r0 - CR for misc. CIDs, Minyoung Park (Intel)
	4. 11-20/734 - CR for CID 7026, Xiaofei Wang (InterDigital)
7. Adjourn

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•       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/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&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 10:03am (ET).**
2. Minyoung goes through the proposed agenda, which can also be found in document 11-20/0695r3, and asks if there is any objection to use this as the agenda for the meeting. No objection from the people on the call so the agenda will be used.
3. Minyoung refers people to the links provided in 11-20/0695r3 in case of questions related to the IEEE patent policy.
4. Minyoung reminds about attendance.
5. Motions:

**Motion# 7005**

Move to accept the comment resolution in 11-20/0600r0 for CIDs listed below:

-7027

**Move:** Rojan Chitrakar

**Second:** Po-Kai Huang

Motion passes with unanimous consent

**Motion# 7006**

Move to accept the comment resolution in 11-20/0601r2 for CIDs listed below:

-7058, 7061, 7064, 7115

**Move:** Rojan Chitrakar

**Second:** Po-Kai Huang

Motion passes with unanimous consent

**Motion# 7007**

Move to accept the comment resolution in 11-20/0692r1 for CIDs listed below:

-7109

**Move:** Po-Kai Huang

**Second:** Rojan Chitrakar

Motion passes with unanimous consent

1. Presentations:

11-20/0601r3, “Comment Resolutions for D6.0 WUR Frame Protection CIDs,” Rojan Chitrakar (Pansonic): This is a follow-up of the presentation in the last telco , where four of the eight CIDs were deferred.

CID 7060: Minor editorial update. No discussion.

CID 7062: This is a duplicate of CID 7060.

CID 7063: Minor editorial update based on discussion.

CID 7088: No discussion.

Document 11-20/0601r4 will be ready for motion.

**11-20/0636r1, “11ba D6.0 Comment Resolution for WUR Beacon,” Po-Kai Huang (Intel):**

This submission proposes resolutions for comments of TGba Draft D6.0 with the following CIDs:

7037, 7043, 7077, 7078, 7079, 7119

CID 7037: Question/Comment (Q): Do you actually have a specific way for the STA to signal a request for a preferred interval?

Based on the comment the proposed resolution is slightly updated.

CID 7043: No discussion.

CID 7077: No discussion.

Po-Kai needs to leave after the first three CIDs, and the remining three need to be discussed in the next call.

Document 11-20/0636r2 will be ready for motion of 3 CIDs.

**11-20/0679r0, “Comment resolutions for miscellaneous CIDs,” Minyoung Park (Intel):**

This submission proposes resolutions for multiple comments related to TGba D6.0 with the following CIDs:

7066, 7068, 7069, 7095, 7096

CID 7066: No discussion.

CID 7068: No discussion.

CID 7069: The test is slightly updated based on discussion.

CID 7095: No discussion.

CID 7096: No discussion.

Q: For CID 7068 and CID 7069, I suggest to add an additional motivation for rejection.

A: OK.

An additional motivation is added.

Document 11-20/0679r1 will be ready for motion.

**11-20/0734r0, “CR fo CID 7026,” Xiaofei Wang (Interdigital):**

This submission proposes the resolution for CID 7026. The baseline for this proposed resolution is 802.11ba Draft 6.0.

CID 7026: Q: Does 0 mean low data rate?

 A: No, it means no recommendation.

Minor update of the resolution.

Document 11-20/0734r1 will be ready for motion.

No more items on the agenda. Minyoung reminds about that we will resume Po-Kai’s presentation in the next call.

1. The meeting is adjourned at 11.20am.

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Albert Petrick | Interdigital |
| 5 | Yunsong Yang | Futurewei |
| 6 | Vinod Kristem | Intel |
| 7 | Rojan Chitrakar | Panasonic |
| 8 | Xiaofei Wang | Interdigital |

**Teleconference on Monday, May 18 2019, 5:00-7:00pm (ET)**

**Proposed Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
	1. Use IMAT to register your attendance
5. Motions
	1. 11-20/0601r4 - CRs for D6.0 WUR Frame Protection CIDs – remaining 4 CIDs (7060, 7062, 7063, 7088 )
	2. 11-20/0636r2 - CR for WUR Beacon – first 3 CIDs ready for motion (7037, 7043, 7077)
	3. 11-20/0679r1 - CR for misc. CIDs
	4. 11-20/0734r1 - CR for CID 7026
6. Presentations
	1. 11-20/0636r2 - CR for WUR Beacon, Po-Kai Huang (Intel) – remaining 3 CIDs
7. Adjourn

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•       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/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&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 5:02pm (ET).**
2. Minyoung goes through the proposed agenda, which can also be found in document 11-20/0695r0, and asks if there is any objection to use this as the agenda for the meeting.

Po-Kai asks Minyoung to add document 779r0 to the agenda. There is also a request for a status update regarding how many CIDs have been addressed and how many remain.

A point is added to the agenda where Po-Kai will give a status update. Minyoung asks if there is any objection to approve the updated agenda. No objection from the people on the call so the updated agenda will be used. This can be found in 11-20/0695r6.

1. Minyoung refers people to the links provided in 11-20/0695r in case of questions related to the IEEE patent policy.
2. Minyoung reminds about attendance.
3. Status update regarding CIDs by Po-Kai Huang.

In total, there are 116 CIDs. All editorial CIDs resolved and in total roughly 50% of the CIDs remain. Po-Kai believed we are slightly ahead of 11ax, looking at the percentage of resolved CIDs.

Minyoung points out that even if we have to after ax and ay to rev. com, we will have to do recirculation(s). The original ambition was to finalize the CIDs in May, but we are slightly behind. Probably we can do recirculation in June.

1. Motions:

**Motion# 7008**

Move to accept the comment resolution in 11-20/0601r4 for CIDs listed below:

* + 7060, 7062, 7063, 7088

**Move:** Po-Kai Huang

**Second:** Xiaofei Wang

Motion passes with unanimous consent

**Motion# 7009**

Move to accept the comment resolution in 11-20/0636r2 for CIDs listed below:

* + 7037, 7043, 7077

**Move:** Po-Kai Huang

**Second:** Xiaofei Wang

Motion passes with unanimous consent

**Motion# 7010**

Move to accept the comment resolution in 11-20/0679r1 for CIDs listed below:

* + 7066, 7068, 7069, 7095, 7096

**Move:** Po-Kai Huang

**Second:** Vinod Kristem

Motion passes with unanimous consent

**Motion# 7011**

Move to accept the comment resolution in 11-20/0734r1 for CIDs listed below:

* + 7026

**Move:** Xiaofei Wang

**Second:** Po-Kai Huang

Motion passes with unanimous consent

1. Presentations:

**11-20/0636r2, “11ba D6.0 Comment Resolution for WUR Beacon,” Po-Kai Huang (Intel):**

This submission proposes resolutions for comments of TGba Draft D6.0 with the following CIDs:

7037, 7043, 7077, 7078, 7079, 7119

This is a continuation from the last telco, where the first three CIDs were covered.

CID 7078: No discussion.

CID 7079: No discussion.

CID 7119: No discussion.

Document 11-20/0636r2 is ready for motion. (The first three CIDs are already motioned.)

**11-20/0636r2, “11ba D6.0 Comment Resolution for WUR Beacon,” Po-Kai Huang (Intel):**

This submission proposes resolutions for comments of TGba Draft D6.0 with the following CIDs: 7118

CID 7118: The commenter is on the call and explicitly express that he is OK with the resolution. No further discussion.

Document 11-20/0636r0 is ready for motion.

1. **The meeting is adjourned at 5.33pm.**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Albert Petrick | Interdigital |
| 5 | Yunsong Yang | Futurewei |
| 6 | Vinod Kristem | Intel |
| 7 | Jon Rosdahl | Qualcomm |
| 8 | Xiaofei Wang | Interdigital |
| 9 | Yi-Hsiu | Innopeak |
| 10 | Rui Yang | Interdigital |