IEEE P802.11
Wireless LANs

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| 802.11ba Teleconference Minutes May/June 2018 |
| Date: 04-02-18 |
| Author(s): |
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Abstract

This document contains minutes from TG 802.11ba teleconference in May 2018.

Rev 0: Minutes from TG 802.11ba teleconference on 21st of May 2018.

Rev 1: Minutes from TG 802.11ba teleconference on 18th of June 2018 added.

**Teleconference on Monday, May 21st, 2018, 10:00 – 11:00 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](http://ericsson.com/))

5. Presentations

    1) 11-18-1009-00-00ba-roaming-mechanism-for-duty-cycle-mode.pptx (Gaurav Patwardhan - HPE)

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>

**Chair Minyoung Park (Samsung) calls the meeting to order at 10:00 am (ET).**

Minyoung goes through the agenda and asks if there is anything that should be added to the agenda. No discussion on the agenda, so the proposed agenda will be used.

Minyoung reviewes the IEEE 802 and 802.11 Policy and Procedure, and direct people to the links provided in the call for this meeting in case of questions. Minyoung asks if there is any potentially essential patent that people are aware of or if there are any questions in this matter.

No potentially essential patents reported and no questions asked.

Minyoung reminds about recording attendance by sending an email to the secretary.

**Presentation:**

**11-18/1009r0, “Roaming mechanism for duty cycle mode”, Gaurav Patwardhan (HPE):** The contribution is concerned with roaming and in particular procedures when a for the device when moving out of range from the AP.

**Question/Comment (Q):** In the state diagram on page7, I expect that a WURx may actually scan for beacons in parallel with scanning for discovery frames. In the state diagram it looks like this is not possible.

**Q:** You suggest a few proposals where the AP decides, but could it be so that also the STA decides?

**Answer(A):** We could consider this as well. Options 2&3 give the STA some freedom to make a decision.

**Q:** Do you propose a new usage model?

**A:** No, there is already a usage model like this. This is a subset of one of the use cases.

**Q:** Is your proposal to have this in the specification?

**A:** Yes.

**Q:** I am unsure about putting this state diagram in the specification. There are many ways to implement this, and usually exactly how to do it is not included in the specification.

**Q:** What does WUR Scan mean?

A: It means that you scan on different WUR channels. Possibly you have some additional information about on which channel it is more likely to find a signal.

**Q:** If the AP does not support Discovery, I wonder how this changes the state diagram.

**Q:** Why do you need WUR Scan, why not just turn on the PCR and do the scan?

A: maybe you have some knowledge which means that the scan can be made without turning on the PCR.

**Q:** WUR Scan is for scanning for other APs?

**A:** Yes.

**Q:** We usually never have this kind of state machine in 802.11. For instance, we don’t have it for the ordinary beacon. These things are typically left for implementation and it is not clear to me why it would be different for WUR.

**Q:** What is the assumption of the sleep interval?

**A:** It depends.

**Q:** If WUR misses the beacons, it just wakes up the PCR and do the usual procedure.

**Q:** I am just concerned that we restrict implementations.

**Q:** Could this be just an example in the specification, or do you want this to mandated?

**A:** Mandated.

**Meeting is adjourned at 10.45 am (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Samsung |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | John Notor | Notor Research |
| 4 | Xiaofei Wang | Interdigital |
| 5 | Lei Huang | Panasonic |
| 6 | Po-Kai Huang | Intel |
| 7 | Yunsong Yang | Huawei |
| 8 | Rojan Chitrakar | Panasonic |
| 9 | Gaurav Patwardhan | HPE |

**Teleconference on Monday, June 18th, 2018, 11:00pm – 12:00 pm (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](http://ericsson.com/))

5. Presentations

1) 18/1082r0   Spec text update for WUR Discovery  Rojan Chitrakar (Panasonic)

2) 18/1085r0   Flexible Group ID Allocation (Kaiying Lv, ZTE Corp.)

6. Adjourn

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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>

**1st Vice Chair Yunsong Yang (Huawei) calls the meeting to order at 11:00 pm (ET).**

Yunsong goes through the agenda and asks if there are any questions on agenda. No questions asked, so the proposed agenda will be used.

Yunsong reviewes the IEEE 802 and 802.11 Policy and Procedure, and direct people to the links provided in the call for this meeting in case of questions. Yunsong asks if there is any potentially essential patent that people are aware of or if there are any questions in this matter.

No potentially essential patents reported and no questions asked.

Yunsong reminds about recording attendance by sending an email to the secretary.

Yunsong reminds about giving name and affiliation when speaking for the first time.

**Presentations:**

**11-18/1082r4, “Spec Text Update for WUR Discovery”, Rojan Chitrakar (Panasonic):** The contribution provides spec. text related to WUR discovery, which is based on presentation 11-18/0244r4 and two motions that are approved for the SFD.

**Question/Comment (Q):** Why do you need to update the Operational element?

**Answer(A):** One reason is that the discovery channel may be different than the wake-up channel.

**Q:** You still have not said what channel is suggested.

**A:** For this presentation it is considered to be TBD, however there will be another presentation which will address this.

**Q:** I believe one should make a distinction between support for the AP element and support for discovery.

**Q:** Do you propose to use only one channel for discovery?

**A:** No, one or more.

**Q:** How does the WUR knows this optional field will be present?

**A:** It can be deduced from the length field.

**Q:** Basing the presence of this optional field may be problematic in the future if we also support additional features. It may be better to indicate the presence explicitly by a bitmap.

**Q:** I don’t like the term “Smart scan” as I believe it make it sound like the normal scan is a poor approach.

**11-18/1085r0, “Flexible Group ID Allocation”, Lv Kaiying (ZTE):** The presentation is concerned with how to allocate Group IDs.

**Q:** I believe the concept with a bitmap in the Frame Body is in the SFD.

**Q:** I agree with the previous comment. What if the Frame Body is not present?

**A:** I believe the Frame Body is optional, so it may be present.

**Q:** I do not believe this type actually has the Frame Body present.

**A:** So maybe this should then be considered as a new proposal for addressing a group of STAs.

**Q:** It seems to be how the grouping is done is implementation specific.

**Meeting is adjourned at 11.59 pm (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Yunsong Yang | Huawei |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Guoqing Li | Apple |
| 4 | Xiaofei Wang | Interdigital |
| 5 | Lei Huang | Panasonic |
| 6 | Po-Kai Huang | Intel |
| 7 | Edward Au  | Huawei |
| 8 | Rojan Chitrakar | Panasonic |
| 9 | Gaurav Patwardhan | HPE |