IEEE P802.11  
Wireless LANs

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| IEEE 802.11 Study Group on Light Communications  March, 2018 Rosemont Meeting Minutes | | | | |
| Date: 2018-01-19 | | | | |
| Author: | | | | |
| Name | Affiliation | Address | Phone | Email |
| Volker Jungnickel | Fraunhofer HHI |  |  | [volker.jungnickel@hhi.fraunhofer.de](mailto:volker.jungnickel@hhi.fraunhofer.de) |
| Olliver Luo | Huawei |  |  | [oliver.luo@hisilicon.com](mailto:oliver.luo@hisilicon.com) |

Abstract

Study Group on Light Communications meeting minutes from the IEEE 802.11 Rosemont meeting, March 2017.

**IEEE 802.11 Study Group on Light Communications**

**Tuesday, March 6, 2018, PM2 Session**

Attendance: around 40 people

1. The IEEE 802.11 LC SG meeting was called to order at by the Vice Chair, John Li Qiang (Huawei).
2. The Vice Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
   * It is reminded all to record their attendance.
3. Chair introduced the schedule for the week

* Response to comments against CSD and PAR

1. Approve the minutes from the January meeting in doc. 11-18/206r4.
   * Chair asked if there are discussions. No discussion. The minutes were approved.
2. Approve the minutes from Februard conference call doc. 11-18/447r1.

1. Approve comment resolution from February conference call in doc. 11-18/387r1.
2. Chair introduced already received comments from 3 individuals against the PAR in doc. 11-17/1604r8r8 and CSD in doc. 11-17/1603r7.
3. Comments from James Gilb
   * Scope of the project: add “wireless” to “…light communication”
   * Scope of the project: range of distances should be added, proposal is “tens of meters”, this was discussed controversially, because using a long range instead of typical operation conditions is misleading
   * Suggestion to address the comment but eventually not changing the PAR
   * Giving more detail in the CSD demonstrated technical feasibility section, where the following sentence was added “The distance of the LC link varies from tens of meters for indoor operations and hundreds of meters for outdoor operations depending on the use cases.”
   * Correct typo to “coexistence”
   * 5.4. Purpose: change to “This amendment will not have a purpose clause.”
   * 5.5. Need for the project: Delete the first instance of “significant” and let the second instance “significant” as is.
   * 6.1.b if answer here is yes, than explanation is needed. Accept. Suggested response from February conf. call in 11-18-0559r1 is taken over
   * The official names of other projects were reviewed and it was changes to “IEEE P802.15.7 Standard for Short-Range Optical Wireless Communication” and “IEEE P802.15.13 Standard…” (rest was correct).
   * Typo in 8.1 Typo “Requirements”
   * Moving to CSD
   * 1.2.1 spell out infrared 🡪 changed to “infrared (IR)”
   * 1.2.1. changes to “IEEE Std. 802.11aj and IEEE P802.11ay”
   * 1.2.1. typo change to “underutilitised”
   * 1.2.1. missing blank lines insert so that it fits on the page
   * 1.2.3. add “IEEE” in front of 802, 802.11 and 802.15 and “P” before 802.15.7m and before 802.15.13
   * One comment left out and treated later
   * 1.2.4 delete “significant” in “significant variety”
   * One comment left out and treated later
   * 1.2.5 various editorial comments (missing lines), change “emboding” to “implementing” accepted
   * Systematically check the whole CSD if IEEE std./ if IEEE P is correct before and 802.11 appears in the text
   * Coming back to left-out comments
   * 1.2.4. Technical feasibility, links to demonstrations should not be in external document
   * But at least 6 references should then be taken over into CSD from cited document developed by TIG
   * start sentence as “The LC-TIG report provides a list of publications and examples of hardware feasibility of LC. The LC-TIG report can be found at …”
   * 1.2.4 b) the first two sentences are not answering the question posed and are deleted. It is added that “Wireless communication using infrared band is a proven commercialized technology. These principles can be directly applied to visible LEDs also used for illumination. The technology has been thoroughly studied using modeling and simulations in the literature.”
4. Comments from Paul Nikolich
   * Change “light communications” in the title of the PAR to “light wave operation” and in the 5.2.b. Scope “-… (MAC) that enable light wave operation broadly referred as light communication

Meeting was recessed until 7:30 p.m..

**Tuesday, March 6, 2018, PM3 Session**

Attendance: around 15-30 people (begin-end)

1. The Vice Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
   * It is reminded all to record their attendance.
2. Vice Chair introduced the schedule for the week
   * Response to comments against CSD and PAR
3. Continuation of the discussion of comments from Paul Nikolich
4. The Vice Chair suggested to make a straw poll on various suggested new scope statements: There were 4 options and a 5th one added during the discussion. It was discussed also to replace LC by optical wireless communications (OWC), but it was argued that this creates a unique identity problem in the name with existing standards and projects in 802.15. It was also suggested to explain again that the original text has been used for almost the whole time during LC TIG and SG and the PAR and CSD has been approved by working group. Changing the title now may have some impact on these previous decisions.

The Vice Chair conducted a straw poll:

Option A is keep the old title and add “operation of light communications” to the Scope,

several other options listed in the slide set

Option A: Y = 21, N = 0

Option B: Y = 2, N = 11

Option C: Y = 0, N = 13

Option D: Y = 6, N = 11

Option E: Y = 1, N = 12

The group formulated a response to the comment:

* + The LC SG evaluated your opinion to make a change to the title along with the subsequent changes that would be required to make that change, and determined to maintain the existing title, see straw poll on sloide 18 in doc. 11-18/315r2.
  + The amendment is to the Wireless LAN standard thus wireless operation is indicated.

1. The Vice Chair moved on to the comments from 802.3. They have been send previously to the group and discussed at the teleconference. The Vice Chair went through the resolutions developed in the telco one by one. There were minor changes to the suggested resolutions. It was reminded that the changes to section 5.5 due to comments dealt with here need to be consistent with the changes made due to comments provided from other groups. This issue has been checked for 5.5. All changes are now consistent. There were changes also in the previously suggested response to the comment on the unique identity in 1.2.3, in which the group has made some refinements in the additional text to be added to address the comment. This proposed additional text is included on slide 38 in 11-18/0559r1.

The Vice Chair asked for AoB. There was a minor editorial point none.

The session was recessed until Wednesday AM1 at 9:05 p.m..