**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Minutes April 2015 ConCalls** |
| Date Submitted | April, 2015 |
| Source | Richard Roberts, Murat Uysal, Hideki Aoyama, Nikola Serafimovski and all attendees |  |
| Re: |  |
| Abstract | [Description of document contents.] |
| Purpose | [Description of what the author wants P802.15 to do with the information in the document.] |
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1. **April 8th OCC ConCall**

Attendees: R. Roberts (Intel), H. Aoyama (Panasonic), M. Oshima (Panasonic), Y. Zeng (China Telecom), N. Serafimovski (PureLiFi), R. Chitrakar (Panasonic), I. Seto (Toshiba), K Horisaki (Toshiba)

ConCall Chair: R. Roberts

Minute Taker: R. Chitrakar

Approved agenda

* Agenda Item #1 - OCC CFA Response Summary - https://mentor.ieee.org/802.15/dcn/15/15-15-0273-00-007a-occ-cfa-response-request-summary.xlsx
* Agenda Item #2 - OCC CFA Response Summary In Applications - https://mentor.ieee.org/802.15/dcn/15/15-15-0292-00-007a-occ-cfa-response-summary-in-applications.xlsx
* Agenda Item #3 - Draft of TG7r1 Technical Considerations Document - https://mentor.ieee.org/802.15/dcn/15/15-15-0293-00-007a-draft-of-tg7r1-technical-considerations-document.docx

1) R. Roberts presented document 15-0273r1

2) H. Aoyama presented 15-0292r0

3) H. Aoyama presented 15-0293r0

A special thanks to Panasonic for generating the first draft of the TCD (doc 15-0293r0). The committee is soliciting comments on document 15-0293r0 in regards to its structure and intent. Please respond via the 15.7r1 email reflector at stds-802-15-7a@listserv.ieee.org .

1. **April 15th LiFi ConCall**

Attendees: Murat Uysal (Ozyegin University), Nikola Serafimovski (PureLiFi), Hideki Aoyama (Panasonic), Tuncer Baykas (Medipol University), Volker Jungnickel (HHI Fraunhofer), Yu Zeng Yu (China Telecom)

ConCall Chair: M. Uysal

Minute Taker: M. Uysal

Approved agenda

* Agenda Item #1 – LiFi CFA Response Summary by Applications

<https://mentor.ieee.org/802.15/dcn/15/15-15-0302-00-007a-lifi-cfa-response-summary-by-applications.xlsx>

N. Serafimovski presented document 15-0302.

- Some modificatons were made on the document based on ConCall participants feedbacks.

- It remained unclear whether or not “wireless backhaul” should be limited to only visible light frequencies. Further discussions are required preferably with some industrial involvement.

- M. Uysal pointed out the need for a PHY mode supporting low-rate applications particularly for lightning industry applications. V. Jungnickel will contact Henry Feil (Osram) to collect some feedback on this issue.

The committee is soliciting further comments on document 15-0302. Please respond via the 15.7r1 email reflector at stds-802-15-7a@listserv.ieee.org .

1. **April 22nd OCC ConCall**

Attendees: H. Aoyama (Panasonic), M. Oshima (Panasonic), Y. Zeng (China Telecom), H. Tsai (NTU), H. Feil (OSRAM)

ConCall Chair: H. Aoyama

Minute Taker: H. Aoyama

Approved agenda

* Agenda Item #1・Continue discussion on TCD
[https://mentor.ieee.org/802.15/dcn/15/15-15-0293-02-007a-draft-of-tg7r1-technical-considerations-document.docx](https://mentor.ieee.org/802.15/dcn/15/15-15-0293-02-007a-draft-of-tg7r1-technical-considerations-document.docx%20)

- Modified section structure was approved

- Yu will send information about level of ambient light to the reflector

- It was suggested that some subsections could be written as OWC common subsection and it will be discussed in face-to-face meeting in which both team will attend

1. **April 29th LiFi ConCall**

Attendees: Nikola Serafimovski (pureLiFi), Harald Burchardt (pureLiFi), Hany Elgala (Boston University), Rick Roberts (Intel), Xu Wang (VLNCOMM), Zeng Yu (China Telecom), Volker Jungnickel (HHI)

ConCall Chair: N. Serafimovski

Minute Taker: N. Serafimovski

Approved agenda

* Agenda Item #1・Continue discussion on TCD
[https://mentor.ieee.org/802.15/dcn/15/15-15-0293-02-007a-draft-of-tg7r1-technical-considerations-document.docx](https://mentor.ieee.org/802.15/dcn/15/15-15-0293-02-007a-draft-of-tg7r1-technical-considerations-document.docx%20)
* Section 4.2.5 on dimming should be joined for OCC and LiFi
* Section 4.2.6 on communication range should include the visibility of the air medium in the evaluation of the channel model.
	+ HHI have at least one or two reverence cases that have reliability numbers and statistics for the visibility and its impact on the communications link.
* Section 4.2.9 on interference coordination and handover may be out of scope for the standard.
* Rick suggested that we need to find the clear demarcation between Layer 3 and MAC.
* Volker, Layer 3 has a central controller that coordinates information from PHY and MAC. This centralized control is not part of the standard and it could be developed as proprietary. Channel state information, RSSI, etc. should be available to the Central Control to enable Handover.
* **Action:** Obtain an official confirmation from Bob Hayley regarding the remit of the Committee to address higher layers.