**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | IG HRRC Meeting Minutes for March 2017 | |
| Date Submitted | 15 March, 2017 | |
| Source | [Junhyeong Kim] [ETRI]  [218 Gajeong-ro, Yuseong-gu, Daejeon, 34129, KOREA] | Voice: [+82-42-860-6239] Fax: [+82-42-861-1966] E-mail: [jhkim41jf@etri.re.kr] |
| Re: | [] | |
| Abstract | [Meeting minutes for the March meeting of IEEE P802.15 IG HRRC] | |
| Purpose | [] | |
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IEEE 802.15 Working Group

Interest Group HRRC: *High Rate Rail Communications*

Meeting (joint with 802.16 Working Group)

Monday 13 March 2017, PM1, PM2

Meeting Chair/Secretary: Junhyeong Kim, ETRI

**Minutes (Monday PM1):**

* Call to order at 13:40
  + The chair called the meeting to order. 3 people attended the meeting.
* The chair reviewed the IEEE-SA patent policy relevant to pre-PAR activities.
* Roll call to register the presence.
* The chair called to approve the proposed meeting agenda ([IEEE 802.15-17-0126-01-hrrc](https://mentor.ieee.org/802.15/dcn/17/15-17-0126-01-hrrc-ig-hrrc-march-2017-agenda.xlsx)).
  + No comment heard from the attendees.
* The previous meeting minutes was approved without additional comment ([IEEE 802.15-16-0841-00-hrrc](https://mentor.ieee.org/802.15/dcn/16/15-16-0841-00-hrrc-ig-hrrc-meeting-minutes-for-november-2016.docx)).
* Contribution #1: “Channel Modeling for MHN-E System” was presented by Junhyeong Kim of ETRI ([IEEE 802.15-17-0127-00-hrrc](https://mentor.ieee.org/802.15/dcn/17/15-17-0127-00-hrrc-channel-modeling-for-mhn-e-system.pptx)).
  + Contents
    - Objective
    - Ray-tracing channel modeling
    - 3GPP channel modeling
    - Future plans
  + Discussions
    - Participant said that according to his knowledge and experience in measurement, RMS delays of ray-tracing simulation results are too short, especially in the case of tunnel environment.
* Contribution #2: “Recent 5G Mobility Demonstrations by Companies” was presented by Junhyeong Kim of ETRI ([IEEE 802.15-17-0171-00-hrrc](https://mentor.ieee.org/802.15/dcn/17/15-17-0171-00-hrrc-recent-5g-mobility-demonstrations-by-companies.pptx)).
  + Contents
    - MWC 2017
    - 5G mobility demonstrations by companies (Ericsson, NTT docomo, Samsung, Qualcomm, SK Telecom, ETRI)
    - Future plan for MHN-E demonstration
* Technical discussions on MHN and MHN-E systems
  + Participant questioned about use-cases considered in the MHN system and IG HRRC.
  + Participant questioned about the reason why the frequency of 25.5GHz is chosen as operating frequency for the MHN-E system, and the chair said that frequency bands in the range of 25~26GHz is unlicensed frequency bands, called Flexible Access Common Spectrum (FACS) in Korea.
  + Participant asked the chair whether the MHN system has already been commercialized in Korea or not.
  + Participant questioned about beamforming technology used in MHN/MHN system, and the chair said that the current MHN system is based on the fixed beamforming and in the future, adaptive beamforming technologies (e.g. beam-tracking) can be considered.
* Adjourned: meeting was adjourned at 16:00.

**Minutes (Monday PM2):**

* Call to order at 16:30.
* Review of a draft PAR and CSD.
* Future Plans
  + Draft PAR and CSD will be updated and uploaded for the further review before the next meeting in May 2017.
  + Call for contribution document will be posted on the Mentor.
  + Encourage more companies to participate in the IG HRRC standardization activities.
* Next meeting schedule
  + Next meeting will be held during the Interim meeting in May.
    - IG HRRC only meets during the plenary meeting (three times per year), but the next meeting, Interim meeting held in Daejeon, Korea, will be an exception.
* Adjourned: meeting was adjourned at 17:00.

Participants of IG HRRC Meeting:

Junhyeong Kim ETRI

Kentaro Taniguchi TOSHIBA

Bob Heile Wi-SUN Alliance