**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 | 10 May, 2017 | |
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| Re: | [] | |
| Abstract | [Meeting minutes for the May 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)

Wednesday 10 May 2017, PM1, PM2

Meeting Chair: Junhyeong Kim, ETRI

Secretary: Bing Hui, ETRI

**Minutes (Wednesday PM1):**

* Call to order at 13:35
  + The chair called the meeting to order. 6 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 802.15-17-0265-02-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 802.15-17-0190-00-hrrc](https://mentor.ieee.org/802.15/dcn/16/15-16-0841-00-hrrc-ig-hrrc-meeting-minutes-for-november-2016.docx)).
* Contribution #1: “Field trial of MHN system for high-speed train communications” was presented by Junhyeong Kim of ETRI ([IEEE 802.15-17-0298-01-hrrc](https://mentor.ieee.org/802.15/dcn/17/15-17-0127-00-hrrc-channel-modeling-for-mhn-e-system.pptx)).
  + Contents
    - Overview of MHN system
    - Field trial of MHN system
    - References
  + Discussions
    - Prof. Kim of Korea Polytechnic University asked for field trial of highway, beamforming is employed?
      * Mr. Kim of ETRI answered that fixed beamforming used for MHN/MHN-E.
    - Prof. Kim of Korea Polytechnic University asked for plan for adaptive beamforming in the future?
      * Mr. Kim of ETRI answered that we will study in the future. But in MHN/MHN-E, there is no adaptive beamforming.
    - Prof. Kim of Korea Polytechnic University fixed beamforming is good for subway in tunnel, but how about for highway?
      * Michael of MJ Lynch & Associates LLC answered that it might be easy to control by vehicles in case of employing fixed beamforming currently.
* Contribution #2: “Random access and mobility procedure for high-speed train communication systems” was presented by Bing Hui of ETRI ([IEEE 802.15-17-0286-00-hrrc](https://mentor.ieee.org/802.15/dcn/17/15-17-0171-00-hrrc-recent-5g-mobility-demonstrations-by-companies.pptx)).
  + Contents
    - HST network deployment & observations
    - RA procedure for HST communications
    - Mobility measurement for HST communications
    - Handover strategies
    - Discussions
  + Discussions
    - Michael of MJ Lynch & Associates LLC shares his experience on the related activities and mentioned that it is really hard to support 500 km/h in practical case.
* Adjourned: meeting was adjourned at 14:29.

**Minutes (Wednesday PM2):**

* This time slot for IG HRRC has been cancelled.

Participants of IG HRRC Meeting:

Junhyeong Kim ETRI

Bing Hui ETRI

Jeong Gon Kim Korea Polytechnic University

Michael J. Lynch MJ Lynch & Associates LLC

Billy Verso decaWave

Bob Heile Wi-SUN Alliance