**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 | |
| Date Submitted | 14 September, 2015 | |
| Source | [] [] [218 Gajeong-ro, Yuseong-gu, Daejeon, 305-700, KOREA] | Voice: [+82-42-860-5324] Fax: [+82-42-860-6732] E-mail: [huibing@etri.re.kr] |
| Re: | [] | |
| Abstract | [Meeting minutes for the September 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 14 Sep. 2015, AM2

Meeting Chair: Junhyeong Kim, ETRI

Secretary: Bing Hui, ETRI

**Minutes**

* Call to order at 10:31 AM
  + The chair called the meeting to order. 14 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 802.15-15-0644-01).
  + No comment heard from the attendees
* The previous meeting minutes has been approved without additional comment. (IEEE 802.15-15-0510-00).
* Contribution #1: “A Study on mmWave Beamforming for HST Communication” was presented by Junhyeong Kim of ETRI (IEEE 802.15-15-0667-00).
  + Prof. Ke Guan of BJTU asked about the fading channel environment of the simulations. He suggested to consider the multipath small scale fading also for the analysis by simulations.
  + Prof. Kurner of TUBS asked about the multipath issues due to the wide beam width of antenna. He suggested to check whether it is proper to neglect the multipath for backhaul link at 30 GHz.
  + Ken of NTT asked about the employment of MIMO, and he suggested to notice about the reflection path from the ground.
* Contribution #2: “Mobile Channel Characterization inside Subway Tunnels at 30 GHz” was presented by Ke Guan of Beijing Jiaotong University (IEEE 802.15-15-0666-00).
  + Andrew of Sony asked about the meaning of several simulation results presented by Prof. Guan, also about the depolarization characteristics of the channel.
  + Ken of NTT asked about the MIMO transmission and the de-correlation distance issues.
  + Prof. Kurner of TUBS asked about the shadow fading. The definition of frame duration in the presentation.
  + Dr Hee-sang Chung of ETRI asked about the rms delay spread in simulations.
  + Junhyeong Kim of ETRI asked about the Doppler shift effect in presentation.
* The demonstration video for link test of MHN by ETRI was shown by the Chair.
  + Prof. Guan asked about the performance variation during demonstration.
* The chair asked for the discussions and comments on IG HRRC.
  + The chair asked about the channel characteristics for open space, such as the Doppler effect etc.
  + Prof. Guan asked for the measurement data from ETRI in the tunnel environment.
* Follow-up Plans
  + Request for one or two slots in next IEEE Session
* Adjourned: meeting is adjourned at 12:17.

Participants of IG HRRC Meeting:

Bing Hui ETRI

Junhyeong Kim ETRI

Hee-Sang Chung ETRI

Ke Guan BJTU

Iwao Hosako NICT

Hiroyo Ogawa ARIB

Thomas Kurner TUBS

Andrew Estrada SONY

Gerald Sihn ETRI

Sebaslian TUBS

Ken Hiraga NTT

Wang Hao Fujitsu

Moon-sik Lee ETRI

Bob Heile Wi-SUN Alliance