**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 | 20 March, 2016 | |
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| 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)

Tuesday 15 March 2016, AM2

Meeting Chair: Junhyeong Kim, ETRI

Secretary: Danping He, Beijing Jiaotong University

**Minutes**

* Call to order at 10:31 AM
  + The chair called the meeting to order. 9 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 802.15-16-0181-02-hrrc).
  + No comment heard from the attendees
* The previous meeting minutes has been approved without additional comment. (IEEE 802.15-15-0915-00-hrrc).
* Contribution #1: “Performance Evaluation of Millimeter-wave-based Communication System in Subway Tunnels” was presented by Junhyeong Kim of ETRI (IEEE 802. 15-16-0185-01-hrrc).
  + Question(Q): Is there any outdoor measurement besides in the tunnel?
    - Answer(A): Actually ETRI has already realized the measurement in highway.
  + Q: What’s the maximum distance range?
    - A: In straight tunnel, the maximum distance is 1.1 km, while in highway scenario only a distance within 1.5 km is tested,
  + Q: What are the antenna configurations?
    - A: The mRU (TX) has one antenna whose maximum antenna gain is 22 dBi, and mTE (RX) is equipped with two antennas to achieve receive diversity for downlink transmission.
  + Q: What’s the highest speed supported by the MHN system?
    - A: It is tested by using both buses and subway train whose maximum velocity are 80km/h. However, the system can support the velocity of up to 500km/h
* The demonstration video of a field trial of MHN system in subway environments by ETRI was shown by the chair.
* The chair asked for the discussions and comments on IG HRRC and other issues.
  + Discussed on recent 3GPP’s standardization issues relevant to IG HRRC.
  + Discussed the progress in other standardization group.
* Follow-up Plans
  + Updated Call for Interest document will be posted before July meeting in San Diego
  + Discussion on the possibility of transition to study group
* Adjourned: meeting is adjourned at 12:17.

Participants of IG HRRC Meeting:

Danping He Beijing Jiaotong University

Junhyeong Kim ETRI

Leandro Melo de Sales Federal University of Alagoas

Kenichi Mori Space-Time Engineering

Ruben Salazar Landis+Gyr

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