**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **<Positive Train Control Interest Group Minutes>** |
| Date Submitted | [9 November 2011] |
| Source | Jon AdamsIndependent12023 N 62nd St, Scottsdale AZ 85254 | Voice: +1 480-628-6686Fax: [ ]E-mail: jonadams@ieee.org |
| Re: | igPTC Plenary Meeting in Atlanta |
| Abstract | igPTC Plenary Meeting Minutes |
| Purpose | Official minutes of the Task Group Session |
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**IEEE 802.15 Plenary Meeting – Session #75**

**Atlanta 2011**

**Positive Train Control Interest Group Minutes**

Attendees:

Jon Adams (Independent)

Michael McInnis (Boeing)

Steve Jillings (Semtech)

Pat Kinney (Kinney Consulting)

Mark Lamborn (Bombardier)

Liang Li (Vinnotech)

Kyung-Hee Kim (KRRI)

Lee Armstrong (USDOT)

Kevin Nichter (Lilee Systems)

Carl Kain (Noblis)

Shu Kato (REIC-Tohuku Univ)

Clint Chaplin (Samsung)

Zheng Zhou (BUPT)

Michael Bahr (Siemens)

Edward Gabrelian (CalAmp)

Chul Park (ETRI)

Monique Brown (Independent)

Paul Chilton (NXP Semiconductors)

Robert Moskovitz (Verizon)

Tero Kivinon; Authentec Oy)

Matt Boytim (Sensus)

John Notor (Notor Research)

David Davenport (GE Global Research)

Thomas Kuerner (Institute of Communications Technology)

Wednesday AM1
Brought into session at 0802
Circulated attendance sheet.
Read the patent policy and call for potentially essential patents - asked if there were anyone that knew of patents or needs for letters of assurance. None were noted.
Reminded everyone to record their attendance at IEEE Murphy site.
Presentation #812r0, J Adams (Independent)
- Overview presentation on PTC-IG Purpose and Goals
Presentation #484r1, P Kinney (Kinney Consulting)
- Presentation on new MAC features adopted in 802.15.4-2011, which greatly expand the ability to create reliable, deterministic networks that can support large number of devices.
- Point that 802.15.4 has now been accepted as an ISO standard
General questions and comments on 15.4 enhancements, range extensions, efforts in .4g, .4k

Wednesday PM1:
Circulated attendance sheet.
Reminded everyone of the patent policy.
Reminded everyone to record their attendance at IEEE Murphy site.
Outlined agenda for the remainder of the afternoon.
Presentation #811r0, K Nichter (Lilee Systems)
Q: Why not use something like GSM-R? GSM-R system frequency allocations, implemented as a mandate from EU gov'ts, unlikely to get same level of cooperation from US carriers
Q: Is PTC a technology or a mandate? Is mandate, not a technology, but many vendors have christened their approaches as a "positive" train control system.
Q: Do US railroads have separate voice and data networks? Yes, 160  for voice, data generally on a different band.

Wednesday PM2:
Circulated attendance sheet
Reminded everyone of the patent policy
Reminded everyone to record their attendance at IEEE Murphy site.
Presentation #819r3, J Notor (Notor Associates)
Q: TV white space use of US TV Ch13; yes, possible especially outside of city areas where there is little TV usage. Military usage of channels in that range, but mostly unknown. Right around 217 MHz is the Naval Space Fence (<http://en.wikipedia.org/wiki/Air_Force_Space_Surveillance_System>)
Notor will continue to research frequency bands and revise his report.

Presentation #821r0, J Adams (Independent). Draft PAR for PTC.
Comments on draft PAR
Session was adjourned at 1745