**IEEE P802.15.16t**

**Wireless Personal Area Networks**

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| Project | **IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)** | |
| Title | **TG16t August 13, 2020 Task Group Minutes** | |
| Date Submitted | [August 13, 2020] | |
| Source | [Daoud Serang] [Winston-Salem, NC] | Voice: 336 918 6758 Fax: [ n/a ] E-mail: [dseranggm@gmail.com] |
| Re: |  | |
| Abstract | [IEEE 802.15 TG16t Teleconference August 13, 2020 Task Group Minutes.] | |
| Purpose | [Report progress to WG] | |
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IEEE 802.15.16t August 13, 2020 Task Group Minutes

Tim Godfrey chaired and called the meeting to order at 2:03 PM EDT on Thursday August 13, 2020.

Attendees:

* Alessandra Rocha, WiMAX Forum
* Ben Rolfe, BCA
* Daoud Serang, CML Microcircuits
* Guy Simpson, Ondas
* Henk de Ruijter, Silicon Labs
* Jay Holcomb, Itron
* Juha Juntunen, Meteorcomm Inc
* Mike Gagne, AURA Network Systems
* Nathan Clanney, Siemens Mobility
* Robert Finch, Select Spectrum
* Ruben Salazar, Landis & Gyr
* Tim Godfrey, EPRI
* Zach Smith, BNSF

Daoud Serang volunteered to be secretary for the meeting.

Tim shared the meeting presentation, “August 2020 TG16t Teleconference Presentation” 15-20-0212-00-016t, and its agenda, which was approved by unanimous consent.

He then read and reviewed the IEEE notifications and policies on potentially essential patents, guidelines for IEEE WG meetings, IEEE SA copyright policy, participant behavior in IEEE-SA activities, that participants shall use the “individual process,” and that IEEE-SA activities shall allow the fair and equitable consideration of all viewpoints.

No potential patents were identified.

Tim reminded that the call for contributions from the July meeting remains open. Mike Gagne and Daoud indicated that they had contributed new documents.

Tim shared the “Frequency Band Layout Document” IEEE802.15-20-0055r4 document submitted by Mike, who indicated that in its row 173 he added a sub-band range for the spectrum used by AURA Network Systems, which is 13 contiguous channels in the 450 MHz band and licensed across the U.S. He noted that it is identical to the paging band that is now aeronautical mobile spectrum. Below that in the spreadsheet he also added that the T band is regulated under Part 90, Sub-Part L.

There were no questions or comments to or discussion of the submission so Tim will mark the document as effectively final but also noted it could be revisited later if needed.

He reviewed that at the prior TG meeting a participant suggested considering support for the HF band, at which time it was explained that HF channel characteristics are not a good match for the critical communication service profile that is 16t’s focus. It was agreed that HF band consideration would be tabled and not considered further.

Tim then shared the “IEEE 802.16t Use Cases” IEEE802.15-20-0213r0 document submitted by Daoud, who explained that it consolidates the prior, separately submitted use case documents and makes editorial revisions. Nathan Clanney noted that some rail market use cases submitted separately by him and Meteorcomm might not indicate the correct respondent. Daoud took a task to correct that and add some details on the AURA Network Systems entry, including enhancing the spreadsheet to add a “Rapid (aeronautical)” mobility type selection.

Tim shared the “System Requirements Document (SRD) outline for 16t” IEEE802.15-20-0182r0 document, which was collectively reviewed through its UL/DL Ratio section. Various points were raised and discussed and associated revisions were agreed and captured in IEEE802.15-20-0182r2.

It was agreed that the Frequency Range section deserved to be reviewed to align it with more recent “Frequency Band Layout” documents on frequency bands potentially compatible with 802.16t. Robert Finch agreed to perform that review.

It was also agreed that existing specifications for operation above 100 kHz channel bandwidths would be conserved, not revised.

There was discussion on whether setting a hard limit on the 10:1 to 1:10 range of UL/DL frame timing ratio is deserved or might later, due to 16t adding support for low capacity channel bandwidths of as little as 5 kHz, need to be expanded outside that range. SRD wording was enhanced on this point. It was agreed that “UL/DL frame timing ratio” should be changed to “TDD UL/DL frame timing ratio.”

Tim will post the resulting IEEE802.15-20-0182r2 SRD version and reiterated that contributions to the SRD continue to be welcome.

He reviewed the revised project timeline, plan for TG16t teleconferences and plan for the next 802 Wireless Interim Session to be held 12-14 January 2021, in Irvine, CA.

Tim reviewed that at the last TG16t meeting the possibility to use Word to edit the 16t amendment was discussed however since then Paul Nickolich, IEEE 802 LMSC Chair, advised that for practical reasons FrameMaker must be used.

Any Other Business - none

The meeting was adjourned at 3:00 PM EDT.