**IEEE 802.15**

**Wireless Specialty Networks (WSN)**

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| Project | IEEE 802.15 802.1 Joint Collaboration | |
| Title | **IEEE 802.1 802.15 Joint Call (Feb. 16, 2022) Minutes** | |
| Date Submitted | [19 Feb., 2022] | |
| Source | [Clint Powell] [] | Voice: [+1 480 586-8457] Fax: [--] E-mail: [cpowell@ieee.org] |
| Re: | [Minutes from 802.1 805.15 Joint Call] | |
| Abstract | [Call minutes] | |
| Purpose | [Official minutes of the call] | |
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**IEEE 802.1 802.15 Joint Call Minutes**

# Wednesday, 16 February 2022

**Opening**

**12:05 PM** 802.15 Vice Chair, Clint Powell (Meta), called the meeting to order

**Minutes**

26 participants were noted during the duration of the call – see last page for list

Utilizing the meeting and agenda in doc. #:  
<https://mentor.ieee.org/802.15/dcn/22/15-22-0110-01-0000-agenda-802-1-802-15-joint-feb-2022.pptx>, the Vice-Chair conducted the following business:

* Intro and reminders
* Presentations on 802.1 (802.1):
* Prioritizing 802.15 topics list (Ben):
* Next steps (All)
* Next joint meeting topics (All)
* Adjourn

**Reviewed P&P Reminders:**

Clint shows IEEE P&P, Copyright and IPR Policy (slides 2 – 8 of <https://mentor.ieee.org/802.15/dcn/22/15-22-0110-01-0000-agenda-802-1-802-15-joint-feb-2022.pptx>), Call for patent claims and potential patent claims was made – none were heard.

**Reviewed Agenda:**

(slide 9 of [meeting report](https://mentor.ieee.org/802.15/dcn/22/15-22-0110-01-0000-agenda-802-1-802-15-joint-feb-2022.pptx)) No changes or objections, Agenda approved unanimously

**Recapped 802.1 / 802.15 Activities to Date:**

Recapped recent mtgs. (Dec. 2021, Jan. 2022)

Recapped prior mtgs. back ~10 yrs

**Presentations**

802.1 overview presentation by Glenn Parsons (Ericsson)

slides: <https://ieee802.org/1/files/public/docs2021/webinar-parsons-overview-of-802-1-0921.pdf>

webinar: <https://1.ieee802.org/tsn-webinar_802-1-introduction/>

* Comments on 3 questions being asked by 802.15
  + What features make sense on a wireless medium?
  + What are the barriers to using 802.1 features?
  + What are considered “essential to be called 802.1 compliant”?
* In general, 802.15 is trying to understand what features make sense and would be useful for 802.15 - one way to proceed, 1st couple of steps
  + Identify low hanging features/items - that make sense to one or more TG's and are straight forward to work on
  + Identify features/items that will benefit more than on 802.15 TG (cross cutting) that will take more time to develop

TSN presentation by Janos Farkas (Ericsson)

slides: <https://ieee802.org/1/files/public/docs2021/webinar-farkas-TSN-overview-1221.pdf>

webinar: <https://1.ieee802.org/tsn-webinar_overview-of-tsn/>

* Questions raised on frame preemption
  + How would it work in a wireless network?
  + Has a wireless WG (e.g. 802.11) used this yet, and successfully? No
    - 3GPP has used it though
  + Comment that 802.15.4 fragmentation is loosely similar
  + Comment that going from wired to wireless get you away from a deterministic delivery time due to many environmental and channel medium factors that do not exist in a wired environment
* A final point made was made in the presentation that TSN builds on bridging

Discussion (802.15 Topics List – slide 2):

slides: <https://mentor.ieee.org/802.15/dcn/22/15-22-0036-00-0000-list-of-topics-for-802-15-802-1.pptx>

* What are considered “essential to be called 802.1 compliant”?
  + MAC service interface – is it defined well enough per 802.1?
    - See 802.1AC
    - The different MACs of 802.15 - .3ma, .4, .6a, .7a, .8, .13, (.14, .15), 16t
  + Bridging
    - See 802.1Q – MAC and VLAN bridging, w/TSN adding additional features

**Next Steps:**

Ben will reach out to each of the above 802.15 TGs (in MAC service interfaces) to solicit volunteers to define the interface to 802.1

**Next joint meeting topic(s):**

* Review the findings of the 802.1 interface definitions from the various 802.15 TG
* Determine what to do with findings

**Adjournment:**

Chair adjourned the call @ 2:00pm (Eastern)

**Additional 802.1 Reference Material:**

Additional Links:

* <https://1.ieee802.org/july-2019-plenary-meeting-in-vienna-austria-tsn-tg-agenda/#Tuesday_80211_TGbe_8211_8021_TSN>
* <https://mentor.ieee.org/802.11/dcn/19/11-19-1266-01-00be-wireless-tsn-part-of-the-picture.pptx>

Next webinar on 802.1AS - next week (week of 2/21):

* <https://engagestandards.ieee.org/TSN-Webinar-Series.html>

**Attendees:**

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| Benjamin Rolfe [BCA] |
| Carlos Aldana [Meta] |
| Clint Powell [Meta] |
| Hiroki Nakano [CAHI Corporation] |
| Dieter Proell [Siemens AG] |
| Dorothy Stanley [Hewlett Packard Enterprise] |
| Glenn Parsons [Ericsson] |
| János Farkas [Ericsson] |
| Jessy Rouyer [Nokia] |
| Kristian Granhaug [Novelda] |
| Marcel Kiessling [Beckhoff Automation] |
| Marco Hernandez [YRP-IAI] |
| Masayuki Hirata [Osaka Univ] |
| Max Turner [Ethernovia] |
| Maximilian Riegel [Nokia] |
| Norman Finn [Huawei Technologies Co. Ltd] |
| Pat Kinney [Kinney Consulting] |
| Paul Nikolich/802 Chairman |
| Phil Beecher [Wi-SUN Alliance] |
| Radhakrishna Canchi [Kyocera International Inc] |
| Roger Marks [EthAirNet Associates] |
| Stephan Kehrer [Hirschmann] |
| Stephen Haddock [Haddock LLC] |
| Sven Zeisberg [HTW] |
| Tero Kivinen [Self] |
| Yoshihiro Ito [Nagoya Institute of Technology] |