**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<802.15 SG14 (NS-UWB) Conf. Call Mins. - March to May 2021>** | |
| Date Submitted | [28 April 2021] | |
| Source | [Clint Powell] [] [Chandler, AZ] | Voice: [+1.480.586.8457] Fax: [--] E-mail: [cpowell@ieee.org] |
| Re: | [802.15.14 SG Conf. Call Mins] | |
| Abstract | [Official Minutes of the Calls from the March to May 2021 Mtgs] | |
| Purpose | [Record the main points of the call] | |
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**802.15 SG14 (NS-UWB) Conf. Call Minutes**

**Wednesday April 28, 2021**

**Opening**

**7:05 AM** 802.15.14 SG Chair, Clint Powell (Facebook), called the meeting to order

**Minutes**

27 participants attended over the duration of the call

Utilizing the meeting and agenda doc. # 15-21-0207-03, the Chair conducted the following business:

* Opening and meeting preamble
  + Chair displayed and reminded participants of P&P's
* May mtg. - # time slots
  + Chair announced that the 4 NS-UWB time slots for the upcoming May 802 Wireless Virtual Interim Session are as follows:
    - Thurs. 5/13 PM2 15.14
    - Fri. 5/14 PM1 15.14
    - Mon. 5/17 AM2 15.4ab, 15.14, 15.15 (Joint Session)
    - Mon. 5/17 PM1 15.14
  + Next rev. of the 802.18 WG agenda for the May 802 Wireless Virtual Interim Session will be r3

see latest rev here: <https://mentor.ieee.org/802.15/documents?is_dcn=167&is_year=2021>

* Review CSD
  + Chair reviewed draft CSD jointly developed by Phil Beecher (Chair 802.15 SG15) and this groups Chair, with inputs from Ben Rolfe (802.15 SG4ab Chair).

see doc. <https://mentor.ieee.org/802.15/dcn/21/15-21-0220-00-0015-draft-csd-for-ns-nb-ns-uwb.docx>

* + A question was raised by Jim Schuessler regarding whether or not a coexistence assurance (CA) doc. would be stated as a requirement, in particular w.r.t. coexistence between the UWB and Non-UWB split, within the scope of the PAR. Chair and Ben explained that 802.15 always does a CA doc when there is PHY related activity and always indicate in the CSD that an analysis will be done.
  + It was discussed that for PARs to be considered by EC at the July meeting, they must be posted by June 8, 2021 for EC/WG review
    - WG Approval is required prior to posting: either at May 802 Wireless Virtual Interim Session WG closing or a WG LB would have to begin by 28 May
    - WG ballot should open by 26 May to assure meeting June 8 deadline
* Next Steps
  + Fred Nabki started working on the PICS checkoff spreadsheet w/Mohammad Rahmani.
  + Chair asked Billy, Fred, and Mohammad if they could have a 1st pass ready by the 1st 802.15.14 time slot of the May 802 Wireless Virtual Interim Session.

For example blank doc see. # <https://mentor.ieee.org/802.15/dcn/21/15-21-0215-00-0015-up-to-date-pics-table-for-802-15-4.xlsx>

* Any other Business
  + Chair made a call for volunteer to start crafting an initial PAR
    - No one volunteered
  + Chair made a call for presentations for the May 802 Wireless Virtual Interim Session
    - There were no responses

Call dates up to the May 802 Interim Session

|  |  |  |
| --- | --- | --- |
| Apr 14 | 10:00 | EDT |
| Apr 21 | 10:00 | EDT |
| Apr 28 | 10:00 | EDT |
| May Interim |  |  |

The group will meet next during the May 802 Wireless Virtual Interim Session.

Chair adjourned the call @ 7:40 am

**802.15 SG14 (NS-UWB) Conf. Call Minutes**

**Wednesday April 21, 2021**

**Opening**

**7:05 AM** 802.15.14 SG Chair, Clint Powell (Facebook), called the meeting to order

**Minutes**

34 participants attended over the duration of the call

Utilizing the meeting and agenda doc. # 15-21-0207-02, the Chair conducted the following business:

* Opening and meeting preamble
  + Chair displayed and reminded participants of P&P's
* May mtg. - # time slots
  + Chair announced that the 4 NS-UWB time slots for the upcoming May 802 Wireless Interim Session are as follows:
    - Thurs. 5/13 PM2 15.14
    - Fri. 5/14 PM1 15.14
    - Mon. 5/17 AM2 15.4ab, 15.14, 15.15 (Joint Session)
    - Mon. 5/17 PM1 15.14
  + Rev. 3 of the WG agenda for the May 802 Wireless Interim Session should be posted shortly
* Review CSD
  + Ben Rolfe gave a quick walkthrough of the CSD approved for the NG-UWB SG (802.15.4ab) so that the group could start thinking about this aspect along with the exercise covered in the next agenda item

see doc. <https://mentor.ieee.org/802.15/dcn/21/15-21-0047-05-nuwb-draft-csd-ng-uwb.docx>

* + The Chair asked for a volunteer(s) to start crafting a draft CSD for NS-UWB
    - There were no volunteers
* Next Steps
  + A new PICS table (generated by Tero Kivinen) covering IEEE 802.15.4 2020 and the amendments published since was shown for those on the call to view

see doc. # <https://mentor.ieee.org/802.15/dcn/21/15-21-0215-00-0015-up-to-date-pics-table-for-802-15-4.xlsx>

* + A question was asked about PICS stand for and how it was used
    - Chair described its use and how this group is going to use the table generated by Tero
  + Chair explained how both the NS-UWB and NS-NB groups would fill this out indicating what items are needed to support a standalone UWB and a standalone NB (Non-UWB) standard
  + The two groups (NS-UWB and NS-NB) will meet with NG-UWB group in the May 802 Wireless Interim Session to discuss the NS groups outcome of this exercise
* Any other Business
  + NTR

Call dates up to the May 802 Interim Session

|  |  |  |
| --- | --- | --- |
| Apr 14 | 10:00 | EDT |
| Apr 21 | 10:00 | EDT |
| Apr 28 | 10:00 | EDT |
| May Interim |  |  |

The next 802.15 SG14 call will occur on Wed., April 28 @ 7am Pacific. This will be the last call before the May 802 Wireless Interim Session.

Chair adjourned the call @ 7:53 am

**802.15 SG14 (NS-UWB) Conf. Call Minutes**

**Wednesday April 14, 2021**

**Opening**

**7:06 AM** 802.15.14 SG Chair, Clint Powell (Facebook), called the meeting to order

**Minutes**

31 participants attended over the duration of the call

Utilizing the meeting and agenda doc. # 15-21-0214-00, the Chair conducted the following business:

* Opening and meeting preamble
  + Chair displayed and reminded participants of P&P's
* Determining which sections in 802.15.4 Standard are required to form a standalone UWB standard
  + Chair explained the activity being taken by the 802.15 SG NS-NB, and that NS-UWB will use the same template table, once generated, to capture what is needed for a standalone UWB standard
  + Chair mentioned about Billy working on commonalities of PHY/MAC features between 802.15.4-2020 and amendments not included in this maintenance document
  + Billy Verso (Qorvo), mentioned that he is began an effort capturing the overlap of features between UWB and NB
    - 4f has NB back-channel
    - NS-NB and NS-UWB use in existing amendments
    - Multiple MAC overlapping features among the documents in comparison
    - Fred Nabki (Spark), offered to help in the above process
* Next Steps
  + Awaiting to receive a newly generated template based on IEEE 802.15.4 2020 so that we may begin filling it out
* May mtg. - # time slots
  + There will be a total of 4 NS-UWB mtgs. scheduled for the upcoming May 802 Wireless Interim Session
    - 3 standalone NS-UWB mtgs.
    - 1 joint mtg. with both the NG-UWB and NS-NB Study Groups
* Any other Business
  + NTR

Call dates up to the May 802 Interim Session

|  |  |  |
| --- | --- | --- |
| Apr 14 | 10:00 | EDT |
| Apr 21 | 10:00 | EDT |
| Apr 28 | 10:00 | EDT |
| May Interim |  |  |

The next 802.15 SG14 call will occur on Wed., April 21 @ 7am Pacific

Chair adjourned the call @ 7:35 am

**802.15 SG14 (NS-UWB) Conf. Call Minutes**

**Wednesday April 7, 2021**

**Opening**

**7:05 AM** 802.15.14 SG Chair, Clint Powell (Facebook), called the meeting to order

**Minutes**

44 participants attended over the duration of the call

Utilizing the meeting and agenda doc. # 15-21-0207-00, the Chair conducted the following business:

* Read P&P's
* Made call for claims with no responses
* Reviewed background of the purpose of the study group, using doc. # 15-21-0132-02
* Discussed next steps
  + Chair communicated how the 802.15 SG15 (NS-NB) was going to take the 2020 802.15.4 Standard and all amendments since then and generate a list of all the sections needed to form a stand alone standard that supported PHY and MAC that use Frame Version 1 and 2 (essentially all non-UWB content)
  + Chair asked the 802.15.4z editor - Billy Verso (Qorvo) if he, along with others help can take the 2020 802.15.4 Standard along with the 2020 802.15.4z Amendment and develop a similar list from a UWB perspective, to begin discussing on our next call
    - Billy agreed and a few others offered to help

Call dates up to the May 802 Interim Session

|  |  |  |
| --- | --- | --- |
| Apr 14 | 10:00 | EDT |
| Apr 21 | 10:00 | EDT |
| Apr 28 | 10:00 | EDT |
| May Interim |  |  |

The next 802.15 SG14 call will occur on Wed., April 14 @ 7am Pacific

Chair adjourned the call @ 7:48 am