**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

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| --- | --- | --- |
| 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