IEEE P802.11
Wireless LANs

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| Minutes of IEEE 802 JTC1 Standing Committeevirtually in November 2021 |
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Abstract

Minutes of IEEE 802 JTC1 Standing Committee session at the IEEE 802 plenary session held virtually in November 2021

# Minutes of the IEEE 802 JTC1 SC meetingon Tuesday, 9 November 2021

### Order

* The chair, Andrew Myles (Cisco), called the meeting to order at 4:03 p.m. EST.
* He displayed the patent material, participant behavior, and copyright policy slides

### Agenda

* The SC agenda is found in 11-21/1563r06 (updated to 11-21/1563r07 during the meeting).
* The agenda was accepted without modification.

### Minutes

* The minutes (11-21/1576r01) of the September meeting were approved by unanimous consent.

### 802.1

* IEEE 802.1 has IEEE 802.1BA-2016 and IEEE 802.1BR-2016 up for their JTC 1 Systematic Reviews.
	+ The reviews close on 4 March 2022.
	+ IEEE 802.1BA-Rev will be submitted for formal ratification sometime after its systematic review is completed.
	+ Jodi Haasz (IEEE Staff) indicated that it would be courteous to give JTC 1/SC 6 a heads-up on the overlap that will occur.
* IEEE 802.1Qcc passed its FDIS ballot in September, with 1 negative vote from the China National Body (CNB) and the usual security comments.
	+ IEEE 802.1 Maintenance has reviewed those comments and a draft response will be approved by the WG during their closing plenary.
* IEEE 802.1AS-Rev also passed its FDIS ballot in September with the usual vote and comments from the CNB.
	+ IEEE 802.1 has a response ready to approve for those comments too.
* IEEE 802.1Q-Rev was liaised for information in September.
	+ It won’t be ready to formally submit for a 60-day pre-ballot prior to March.
* IEEE 802.1X-2020 is in an FDIS ballot closing in next week.
* IEEE 802.1CMde passed its FDIS ballot in September and received the usual vote from the CNB.
	+ Some of the comments received were the usual ones, but there were also comments about their general dislike of certain aspects of the IEEE 802.3 and IEEE 802.11 architectures.
	+ IEEE 802.1 has generated responses to all the comments received and will approve their submission in response.
* IEEE 802.1CS is awaiting the start of its FDIS ballot.
	+ Jodi Haasz has reached out to ISO and is waiting hear back on that ballot’s timing.
* IEEE 802.1Qcz’s formal submission for approval is gated by prior approval of IEEE 802.1Q-Rev.
* IEEE 802.1ABcu, IEEE 802.1CBdb, IEEE 802.1CBcv, and IEEE 802.1ABdh will be formally submitted for ratification upon publication.
* IEEE 802.AS/cor1 will go directly to its 90-day FDIS ballot on publication.
* IEEE 802.1ACct will also be submitted on publication.

### 802.3

* IEEE 802.3cb, IEEE 802.3bt, IEEE 802.3cd all close their FDIS ballots at the end of the week.
* IEEE 802.3cn finished its FDIS ballot back in September and the CNB submitted the usual comments along with their negative vote.
* IEEE 802.cq, IEEE 802.3cm, and IEEE 802.3ch follow this pattern as well.
* IEEE 802.3cg will close its FDIS ballot next week.
* IEEE 802.3 has generated a response to those comments indicating that IEEE 802.3 is security agnostic and will therefore not directly incorporate cryptographic mechanisms.
* Claims of security defects in other, non-IEEE 802.3 standards are rebutted by pointing the CNB to the appropriate working groups.
* IEEE 802.3.2 has received a negative vote and similar comments.
	+ IEEE 802.3 has generated a similar response to those comments.
	+ The IEEE 802.3 WG will approve transmission of those response during its closing plenary session.
* IEEE 802.3cr and IEEE 802.3cu are both awaiting the start of their 5-month FDIS ballots.
* IEEE 802.3ct, IEEE 802.3cv, and IEEE 802.3cp all passed pre-ballots last month.

### 802.11

* IEEE 802.11 has seen the ratification of IEEE 802.11ax in October, but with multiple negative votes and comments based around IPR concerns.
	+ A response was generated by IEEE 802.11, but the IEEE 802 EC deferred sending that until it could be discussed further.
	+ The response has been reworked several times.
	+ However, the IEEE SA told IEEE 802 that it would handle the response.
	+ The IEEE SA President has sent a response directly to ISO, but the upshot of that is currently unknown.
	+ Separately, IEEE 802 has generated a response to the CNB’s technical comments and those were approved for transmission by the IEEE 802 EC.
* More alarmingly, the 60-day pre-ballot on IEEE 802.11ay outright failed.
	+ Again, IPR issues caused several countries to vote against its ratification.
	+ Aside from the negative votes, there were also IPR-related comments from countries that voted in favor of its ratification.
	+ All had concerns about the negative Letters of Assurance (LoAs) on file with IEEE regarding IEEE 802.11ay.
	+ The CNB added the usual security comments in addition to their IPR concerns.
	+ Having failed its 60-day pre-ballot, IEEE 802.11ay will not be processed further by ISO.
	+ It will have to be resubmitted for another 60-day pre-ballot once the IPR issues have been sorted out.
	+ Because the 60-day pre-ballot will have to be repeated, the JTC1 SC will not address the security-related comments at this time.
* IEEE 802.11az, IEEE 802.11bb, IEEE 802.11bc, IEEE 802.11bd, IEEE 802.11be, IEEE 802.11bf, IEEE 802.11bh, and IEEE 802.11bi are too early in their development processes to send them even for informational purposes.
* IEEE 802.11ba would be ready to be submitted for a 60-day pre-ballot, but until the IPR issues are resolved, it won’t be.
* If the IPR issues cannot be resolved between IEEE and ISO, then there exists the possibility that future IEEE 802 standards will not be submitted under the PSDO process.
	+ That would be an unfortunate turn of events, because the ISO/IEC imprimatur on a standard is valued in some countries.
	+ Paul Nikolich (multiple affiliations, IEEE 802 chair) asked what the indicator of resolution looks like.
		- It’s not clear.
		- Haasz will be following up with ISO.
	+ Joseph Levy (InterDigital) expressed concerns about the possible abandonment of the PSDO process if the IPR issues can’t be resolved.
	+ Given that the IEEE SA cannot provide ISO with their desired positive LoAs, an impasse is not out of the question.
* Finally, IEEE 802.11md (aka IEEE 802.11-2020) is awaiting the start of its FDIS ballot.
	+ The IPR issues should not affect it.

### 802.15

* IEEE 802.15 has nothing in the pipeline.
* Peter Yee will check with the IEEE 802.15 leadership to see if they have anything they would like to submit.

### 802.19

* IEEE 802.19.3 might be submitted.
* Steve Shellhammer (Qualcomm, IEEE 802.19 WG chair) will check with Ben Rolfe (IEEE 802.19.3 TG chair) to consider that move.

### 802.22

* IEEE 802.22-2019’s FDIS ballot has been restarted after a false start and will close on 18 March 2022.
* The IEEE 802.22 WG is in hibernation, which may complicate comment resolution, if any.

### HK NB submission

* The Hong Kong National Body (HKNB) submitted a late presentation to the last SC 6 plenary meeting.
* While not discussed there, IEEE 802.11 and the IEEE 802 EC generated and transmitted a response to that input.
* No response has yet been received from SC 6.

### industrial wireless networking

* The Korea NB has proposed a new work item on industrial wireless networking.
	+ The proposal suggests that IEEE 802.11ax and 3GPP 5G-TSN are not sufficient for the task, particularly in regard to isochronous, real-time services.
	+ It does not mention IEEE 802.11be.
* It does seem to have an accurate view of what IEEE 802.1 TSN (Time Sensitive Networking) brings to the table, but it seems this isn’t enough.
	+ There doesn’t appear to be much there for that WG to discuss.
* IEEE 802.11 and IEEE 802.15 could look at the isochronous, real-time aspects of the proposal.
	+ Dorothy Stanley (HPE, IEEE 802.11 chair) indicated that IEEE 802.11 might discuss the topic.
	+ ISO/IEC JTC 1/SC 6/WG 1 will have an interim meeting 15-18 February 2022, so if the IEEE 802 EC can approve a liaison to them prior to that, it will be timely.
	+ The question is whether anyone in IEEE 802.11 (or IEEE 802.15) cares about an increased level of similar standards in this space.
	+ If so, input should be generated prior to the January interim IEEE 802 meeting.

### Wearable Robot Area Networks

* There’s another PWI (Preliminary Work Item) for consideration at the SC 6/WG 1 interim meeting that covers Wearable Robot Area Networks.

### Adjounment

* The meeting was adjourned at 5:09 p.m. EST.