IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 16-18 July 2019 |
| Name | Affiliation | Address | Phone | Email |
|  |
| Author(s):  |
| Peter Ecclesine | Cisco Systems | CA | +1(408)722-8489 | petere@ieee.org |
|  |
| Author and Officer presiding:  |
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Abstract

These are the Minutes of the IEEE 802 RR-TAG ATL Wireless Interim face to face 16-18 July 2019

Chair calls the meeting to order at 10:34 local, Tuesday 16 July 2019.

1. Chair presents slides 2, 3, and 4 of 802.18-19/0087r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 5, of 802.18-19/0087r01, the agenda:
	1. **Call to Order**
		1. Attendance server is open
	2. **Administrative items**
		1. Need a recording secretary, Peter Ecclesine, Cisco Systems volunteers
	3. **Approve agenda & last minutes**
		1. Looking for an 802.18 Vice-Chair & Sec.
	4. **Discussion items**
		1. EU Items
		2. ITU-R SM.2352 on THz submission
		3. UWB status Japan
		4. APT CPG for WRC-19
		5. General Discussion Items
	5. **Agenda for Thursday**
		1. ITU-R submission on SM.2352
		2. APT update and submission
	6. **Teleconferences moving forward**
	7. **Actions required**
		1. Anything new from this week
	8. **AOB and Adjourn**
3. Chair presents slides 6 - 9, Administrative – Motions and more
	1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Ben Rolfe (Blind Creek Assoc.)

Seconded by: Time Harrington (Pro ID)

Discussion? None

Vote: Approved by Unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Wireless Interim 15 -17 May 2019 in document: <https://mentor.ieee.org/802.18/dcn/19/18-19-0062-00-0000-minutes-atl-w-interim-14-16may2019-rr-tag.docx> Posted: 30-May-2019 14:15:15 ET

Moved by: Hassan Yaghoobi (Intel Corp)

Seconded by: Thomas Kuerner (TU Braunschweig)

Discussion? None

Vote: Approved by Unanimous consent

* 1. **As of direction/discussions in LMSC(EC) Monday (15th), reciprocal from other working groups has been removed. Reciprocal to other working groups remains as before.**
		1. That is attending 802.18 you will continue to get credit in 802.11, 802.15, etc.
		2. However, attending 802.11, 802.15, etc. you will no longer get 802.18 credit.
	2. The chair asked if anyone did not partake in a straw poll the day before about who is here Friday so a count for food can be determined. Nothing heard.
	3. The Chair noted the RR-TAG is in need of a vice-chair and secretary**, is there anyone that can help? no response**
		1. Slides 8 & 9 have responsibilities and requirements for these offices
1. Chair presents slides 10-13 EU Items to share
	1. Also see agenda document 18-19/0087.
	2. **Delegated Act on C-ITS was rejected by European Council on 04July which was a surprise**.
		1. ETSI is already working on this issue, a key being interop with DSRC which needs more investigation.
		2. Another key item is certificate rules which would have caused changes in existing standards on security certificates.
		3. Note Volkswagen will go on with deployment of ITS-G5, as will Austria. The EC will do further work on certificate management, mainly the JRC will do the work, to become available in 2020 or 2021. More information will come in the next meeting. DG Connect is fully 5G. DG Move is more pragmatic. Discussion in ETSI TG ITS continued last week. Technically there is not a big change. Important: The ITS directive (Directive 2010/40/EU of the European Parliament and of the Council of 7 July 2010 on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport Text with EEA relevance) is still binding. Here the interoperability is the main point. But it is not defined in detail.
	3. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287)next meeting #103, 07-10 Oct 2019, Sophia Antipolis
		1. From the last meeting, #102, 17-20 June:
		2. A proposal for a new WI for a 6GHz standard (EN 303 687) was submitted to BRAN. Discussions and modifications during and after the meeting resulted in the WI being adopted.
		3. Discussed 802.11a preamble detect and EN 301 893 possible ACS requirements, and trying to be complete by December.
		4. BRAN(19)102020 is on the adaptivity related requirements.
		5. Still looking for a chair.
	4. **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) meeting #55 was 02-03 July (2 wks back)
		1. Discussions on SRDoc, TR 103 665, EN 300 328 status.
		2. Discussed draft TR 103 665 v0.0.3 and v 0.0.4, with a new call for any new example technology/applications to be included in the SRDoc.
		3. There are discussions between ETSI and EC on privacy (article 3.3 of the RED) but no decision on how/where to address/specify.
		4. No candidate for the chair yet.
	5. **ETSI** [**<ERM>**](https://portal.etsi.org/tb.aspx?tbid=286&SubTB=286)next meeting #69, 15-18 Oct 2019, Sophia Antipolis
		1. From the last meeting #68 was 25-28 June:
		2. Discussed EN 300 328 V2.2.1 is in National Vote and concluded on 01 July positively. It will be delivered to EC on 05Aug and expected in OJ 28Oct.
		3. ERM(19)068005a1r1 update selection on Rx requirements.
		4. ERM(19)000026r2 UK voted positive for the receiver blocking, though they still want more receiver requirements yet.
		5. There a discussion between ETSI and the commission about software defined updates with privacy requirements.
		6. The 60 GHz document has been approved.
	6. **CEPT – ECC** [<SE24>](https://cept.org/ecc/groups/ecc/wg-se/se-24/client/introduction/) next meeting M98, 16-18 Sept 2019, Cluj Napoca, Romania
		1. **And WGFM:**
		2. ECC DEC (09)01 on 60 GHz ITS with ITS as mobile service in the band 63.72-65.88 GHz.
		3. ITS Regulation in 5.9 GHz, ECC DEC(08)01 (Band 5875 MHz to 5925 MHz) and REC(08)01 (Band 5855 MHz to 5875 MHz) to go to public consultation in mid-November.
		4. The commission might add 5915-5925 MHz for urban rail at the same time.
	7. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) next meeting #8, 27-29 May, Prague
		1. Has been re-opened (for now), to review the additional inputs from the consultation and support FM57.
	8. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) next meeting #7, 16-17 May, Copenhagen
		1. Report A was published as CEPT Report 73 and is in public consultation.
		2. Report B is due July 2020
			1. The public inquiry would need to be done by March 2020.
		3. Likely will have web meetings moving forward.
2. Chair presented slide 14, ITU-R SM.2352 on THz communications.
	1. We reviewed draft from 802.15.3d on a submission to ITU-R on the current SM.2352 that needs updates.
		1. <https://mentor.ieee.org/802.15/dcn/19/15-19-0276-01-0thz-ieee-802-15-tag-thz-input-to-the-revision-of-itu-r-sm-2352.docx>
	2. Will not need till next June, though 802.15 THz TAG is not meeting before then, so want to finish draft now and go for approval near year’s end or first of 2020.
	3. One suggestion was to update lead in info on IEEE802 and this is solely their view. The rest was okay
3. Chair presented slide 15, UWB status for Japan.
	1. See presentation on Mentor:
	2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0086-00-0000-outdoor-uwb-regulation-of-japan.pptx>
	3. Some highlights are info on low band 3.4-4.2 GHz and high band 7.25-10.25 GHz. Then 20 May 2019 revision allows outdoor operation in 7.587-8.4 GHz with an average of-41.3 dBm/MHz 7.662-8.4 GHz, peak of 0 dBm/50 MHz 7.587-8.4 GHz.
	4. ARIB will publish an English version at end of year.
4. Chair presented slide 16, APT (Asia-Pacific Telecommunity)-meeting on WRC-19
	1. [The 5th Meeting of APT Conference Preparatory Group for WRC-19 (APG19-5)](https://www.apt.int/2019-APG19-5)
		1. 31 July 2019-06 August 2019, Tokyo, Japan
		2. They will include discussions on IMT designation in 6GHz and WRC-19/23 AIs.
		3. Comments due 24 July and we would need to be considered - … an other relevant organization.
		4. Looks busy to file with separate documents per AI to different working parties.
			1. There would be 3 filings; 1.12&1.15; 1.13&1.16&9.1.5; 10
		5. The comment guidelines are in:
			1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0091-00-0000-apt-apg19-5-wrc-19-ais-contribution-guideline29-april-2019.docx>
	2. We reviewed in detail a draft contribution where all were in one document to start with. We did notable edits in AI 10, see:
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0093-03-0000-ieee-802-views-on-wrc-19-agenda-items-for-apt-draft.docx>
	3. Plan is the member helping and chair will work on the 3 documents to prepare for Thursday’s meeting, to do final review and vote on approvals.
5. Chair presents slide 17-20, General Discussion Items.
	1. MSIT, Korea, has issued a consultation with a comment deadline of 19 August 2019.
		1. <https://www.msit.go.kr/web/msipContents/contentsView.do?cateId=mssw353&artId=2044437>
		2. IEEE 802 does not have anything today > 76 GHz, and learned that USA and elsewhere are using this band already for this functionality, so that answers the question, Korea is harmonizing with them,
		3. **We will pass on any comments.**
	2. UWB petition for rule making
		1. <https://ecfsapi.fcc.gov/file/10618992215487/2019%20FINAL%20PETITION%20FOR%20RULE%20MAKING%20for%20FCC%20Filing.pdf>
		2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0079-00-0000-bosch-petition-for-rulemaking-uwb-devices-and-systems.pdf>
		3. <https://www.fcc.gov/ecfs/search/filings?q=UWB%20petition&sort=date_disseminated,DESC>
		4. With a quick thumb through earlier much is focused on taking the waivers approved over the last many years and codifying them.
		5. Have not reviewed enough if wanting more than that, e.g. higher power. Nothing reported from the anyone.
		6. There was an ex parte today, will review it when time permits.
		7. **802.18 will continue to monitor, no action needed until the FCC goes further.**
	3. New Monday, 15 July, MCMC (Malaysia) has a consultation out now on WRC-19 Agenda Items, comments due 09 August.
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0092-00-0000-mcmc-public-consultation-malaysia-position-for-wrc-19.pdf>
		2. Will discuss next steps at next couple of teleconferences and maybe do similar to what we did for Ofcom last year and APT now, to send our viewpoints.
	4. The FCC authorized a product recently that transfers 1W of power about 1m distance.
		1. We should expect an increasing conversation in the next while about the usage of unlicensed spectrum for communications vs power transfer.
		2. There seems to be references to both 2.4GHz (FCC ID 2AS57OSSIACOTATX201) and 24GHz (FCC docked 19-83).
		3. <https://fccid.io/2AS57OSSIACOTATX201> (FCC part 15.249, 15.247 and Part 18)
			1. 2405-2480 MHz, OQPSK, 1.6MHz 6dB OBW, -0.3dBm, 2dBi ant.,
		4. <https://www.fcc.gov/ecfs/search/filings?limit=50&offset=0&proceedings_name=19-83&sort=date_received,DESC>
		5. The looks in the room, people recognized this could become an issue later.
		6. However, as 2.4 GHz is an unlicensed band, there is little that can be done to prevent products of this type from being used.
		7. **We will monitor and see where the FCC goes here. (what about world wide?)**
	5. ITU-R and WRC, keeping up.
		1. Did have a meeting with staff earlier (25 June), outlining WRC process and ITU-R.
		2. One action is to have an ongoing slide like the EU slides with upcoming webcasts and meetings.
		3. After WRC-19, early next year, will review WRC-23 Agenda Items and (start to) put together IEEE 802 viewpoints on them.
		4. .18 needs to research further the USA/Canada/xxxxx WRC prep processes meetings etc., web sites to follow, can we dial in, etc.
	6. Just showed a list of the many items discussed in teleconferences since May:
6. Chair presents slide 21, Actions /AOB/Recess
	1. Actions required:
		1. THz submission document back to 802.15, with update on lead in paragraph.
		2. Prepare the three docs to APT for review and approval Thursday AM1.
	2. AOB before Recess to Thursday AM1.
		1. None
	3. We recessed until Thursday AM1, at 12:28 local.
7. Chair reconvenes the meeting at 08:03 local Thursday 16 May 2019
8. Chair presents slide 22 of agenda 18-19/0087r01, Thursday Agenda
	1. Reminder of IEEE policies we are under
		1. Attendance server is open.
		2. Remember to state your name, affiliation, employer and/or clients first time you speak.
		3. Call for a recording secretary: Peter E.
		4. Reminder 802.18 reciprocal credit from other WGs has been turned off.
	2. Items from Tuesday or new
		1. ITU-R SM.2352 on THz document, quick status.
		2. APT submission on WRC-19 Agenda Items
		3. 5GHz status in Japan presentation
		4. APAC and APT general status
	3. Teleconferences moving forward
	4. Actions Required
	5. AOB
	6. Adjourn
9. Chair presents slide 23, ITU-R SM.2352 on THz communications needs updates.
	1. As reported Tuesday, ITU-R WP1A meeting in June did not manage to prepare an (expected) liaison statement. In any case, we did review a draft submission to ITU-R from IEEE 802.15.3d.
	2. Approval in 802.15 mid-week to move document to 802.18 for approval and process to file with ITU-R early 2020.
	3. <https://mentor.ieee.org/802.15/dcn/19/15-19-0276-03-0thz-ieee-802-15-tag-thz-input-to-the-revision-of-itu-r-sm-2352.docx>
10. Chair presents slides 24 and 25,APT submission on WRC-19 Agenda Items
	1. Work on submission of 3 documents to APT working parties with our IEEE 802 viewpoints on WRC-19 agenda items, to finalize and move to LMSC ballot on Friday.
	2. **working party 1: agenda items 1.12 and 1.15:**
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0094>
	3. **working party 2: agenda items 1.13, 1.16 and 9.1.5:**
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0095>
	4. **working party 6: agenda item 10:**
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0096>

**Motion: Move to approve 3 documents:**

working party 1: agenda items 1.12 and 1.15:

<https://mentor.ieee.org/802.18/dcn/19/18-19-0094-04-0000-apt-wp1-wrc-19-ais-1-12-1-15-ieee-802-views.docx>

working party 2: agenda items 1.13, 1.16 and 9.1 Issue 9.1.5:

<https://mentor.ieee.org/802.18/dcn/19/18-19-0095-04-0000-apt-wp2-wrc-19-ais-1-13-1-16-9-1-5-ieee-802-views.docx>

working party 6: agenda item 10:

<https://mentor.ieee.org/802.18/dcn/19/18-19-0096-04-0000-apt-wp6-wrc-19-ais-10-ieee-802-views.docx>

on IEEE 802’s viewpoints on WRC-19 appropriate Agenda Items for APT (Asia-Pacific Telecommunity). With the chair of 802.18 to have editorial privileges and send to the LMSC(EC) for review/approval and submission to the identified APT Working Parties, all by 23 July 2019.

Moved by: Hassan Yaghoobi (Intel)

Seconded by: Stephen Palm (Broadcom)

Discussion? none

Vote: \_14\_Y / \_0\_N / \_0\_A

Motion - Passed

1. Chair presents slide 26, General discussions
	1. **5GHz status in Japan:**
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0097-00-0000-overview-of-recent-5ghz-band-rule-changes-in-japanese.pptx>
	2. **General APAC update for last couple of months:**  (may do this more often at face 2 faces)
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0090-01-0000-apac-update-july-2019.pptx>
	3. Informative, latest positions of APT,
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0089-00-0000-latest-positions-of-apt-on-selected-wrc-19-agenda-items-after-apg19-4.pptx>
2. Chair presents slide 27, Teleconferences
	1. **Motion: The 802.18 Chair or Chair designee is directed to conduct, as necessary, teleconferences on Thursdays at 15:00 ET through 02 January 2020**
		1. Moved by: Ben Rolfe (Blind Creek Assoc)
		2. Seconded by: Tim Harrington (Pro ID)
		3. Discussion? None
		4. Passed by Unanimous Consent
3. Chair presents slide 28, Actions required
	* MCMC (Malaysia) consultation out on WRC-19 Agenda Items, comments due 09 August.
	* The chair to work with the LMSC on ballot, approval and sending our comments to APT.
	1. Ongoing:
		1. Monitoring/inputting into the agenda items for WRC-23 and ITU-R activity.
			1. Did have a meeting with staff earlier (25 June), outlining WRC process.
			2. One action is to have an ongoing slide like the EU slides with upcoming webcasts and meetings.
		2. WPT use of license-exempt bands.
		3. UWB petition for rule making
		4. Digital Divide, how can we help?
4. Chair presents slide 29 Any Other Business
	1. USA congress may be allowing the FCC to rent frequencies. Very early in process.
	2. Straw Poll

How many people would like to come back to this venue?

Yes -- 13

No – 2

* 1. Registration has been out for September 2019 Wireless Interim at the JW Marriott Hotel, Hanoi, Vietnam. [**http://www.mtgevents.com.au/ieee2019/visa-and-travel/**](http://www.mtgevents.com.au/ieee2019/visa-and-travel/)
1. Chair presents slide 30, Adjourn
	1. **Next teleconference: 25 July 2019 – *15:00 – <15:55* ET**
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-12-0000-teleconference-call-in-info.pptx> **(*or latest)***
		2. Note: If the call-in link doesn’t work send the Chair an email right away.
		3. All late changes/cancellations will be sent out to the 802.18 list server.
	2. **Adjourn:**
		1. Agenda complete, any objection to Adjourn.
		2. None heard, we are Adjourned at 09:59:60 local
	3. The next face to face meeting of the 802.18 RR-TAG will be at the IEEE 802, 17 – 19 Sept. 2019 Wireless Interim in the JW Marriott Hotel, Hanoi, Vietnam
		1. Normal time slots, Tuesday AM2 and Thursday AM1

Meeting attendance for RR-TAG (Tuesday, 16-July-2019, AM2 10:20 - 12:30) – 34 attendees, 21 voters

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| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Current Involvement Level** | **Affiliation** |
| Avrillon | Matthieu | Observer | Luceor |
| Berens | Friedbert | Voting Member | FBConsulting Sarl |
| Boldy | David | Voting Member | Broadcom Corporation |
| Choi | Dain | Observer | Telecommunications Technology Association (TTA) |
| de Vegt | Rolf | Voting Member | Qualcomm Incorporated |
| Ecclesine | Peter | Voting Member | Cisco Systems, Inc. |
| Fang | Yonggang | Voting Member | ZTE TX Inc |
| Furuichi | Sho | Voting Member | Sony Corporation |
| Godfrey | Tim | Voting Member | Electric Power Research Institute, Inc. (EPRI) |
| Harrington | Timothy | Voting Member | Pro-ID Consulting |
| Hiertz | Guido | Voting Member | Ericsson AB |
| Holcomb | Jay | Voting Member | Itron Inc. |
| Ikegami | Tetsushi | Observer | Meiji University |
| Inoue | Yasuhiko | Voting Member | Nippon Telegraph and Telephone Corporation (NTT) |
| Jeffries | Timothy | Voting Member | Huawei Technologies Co. Ltd |
| Krammer | Wolfgang | Observer | federal ministry for transport, innovation and technology |
| Kuerner | Thomas | Voting Member | TU Braunschweig |
| Kwon | Yong-Jin | Observer | Newracom Inc. |
| LEE | JOONSOO | Observer | Newracom Inc. |
| Lepp | James | Voting Member | BlackBerry |
| Levy | Joseph | Observer | InterDigital, Inc. |
| Li | Huan-Bang | Aspirant Member | National Institute of Information and Communications Technology (NICT) |
| Naguib | Ayman | Observer | Apple, Inc. |
| Ohno | Kohei | Observer | Meiji University |
| Palm | Stephen | Voting Member | Broadcom Corporation |
| Rolfe | Benjamin | Voting Member | Blind Creek Associates |
| Sand | Stephan | Aspirant Member | German Aerospace Center (DLR) |
| Sarris | Ioannis | Voting Member | u-blox |
| Sherlock | Ian | Voting Member | Texas instruments |
| Smely | Di Dieter | Observer | Kapsch TrafficCom AG |
| Verso | Billy | Voting Member | DecaWave |
| Wang | Lei | Voting Member | Huawei R&D USA |
| Ward | Lisa | Aspirant Member | Rohde & Schwarz |
| YAGHOOBI | HASSAN | Voting Member | Intel Corporation |

Meeting attendance for RR-TAG (Thursday, 18-July-2019, AM1 07:40 - 10:00) 23 attendees, 15 voters

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Current Involvement Level** | **Affiliation** |
| Berens | Friedbert | Voting Member | FBConsulting Sarl |
| Boldy | David | Voting Member | Broadcom Corporation |
| Choi | Dain | Observer | Telecommunications Technology Association (TTA) |
| Ecclesine | Peter | Voting Member | Cisco Systems, Inc. |
| Godfrey | Tim | Voting Member | Electric Power Research Institute, Inc. (EPRI) |
| Harrington | Timothy | Voting Member | Pro-ID Consulting |
| Holcomb | Jay | Voting Member | Itron Inc. |
| Ikegami | Tetsushi | Observer | Meiji University |
| Inoue | Yasuhiko | Voting Member | Nippon Telegraph and Telephone Corporation (NTT) |
| Jeffries | Timothy | Voting Member | Huawei Technologies Co. Ltd |
| Kuerner | Thomas | Voting Member | TU Braunschweig |
| Li | Huan-Bang | Aspirant Member | National Institute of Information and Communications Technology (NICT) |
| Ohno | Kohei | Observer | Meiji University |
| Palm | Stephen | Voting Member | Broadcom Corporation |
| Rolfe | Benjamin | Voting Member | Blind Creek Associates |
| Sand | Stephan | Aspirant Member | German Aerospace Center (DLR) |
| Sherlock | Ian | Voting Member | Texas instruments |
| Verso | Billy | Voting Member | DecaWave |
| YAGHOOBI | HASSAN | Voting Member | Intel Corporation |
| Au | Kwok Shum | Observer | Huawei Technologies Co., Ltd |
| Chen | Evelyn | Observer | Ericsson AB |
| Lansford | James | Voting Member | Qualcomm |
| Leong | Frank | Observer | NXP Semiconductors |