IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 02 Apr 20 | | | | |
| Name | Affiliation | Address | Phone | Email |
|  |  |  |  |  |
| Author and Officer presiding: | | | | |
| Jay Holcomb,  Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | +1(509) 891-3281 | jholcomb@ieee.org |

Abstract

Minutes of the IEEE 802 RR-TAG Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 02 Apr 20

**Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **02Apr** | **31mar** | **26mar** | **19mar** | **18mar** | **17mar** | **16mar** | **13mar** | **12mar** |
| Auluck | Vijay | Self Employed | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Boldy | David | Broadcom | **x** |  |  |  |  |  | **x** |  |  |
| De Vegt | Rolf | Qualcomm |  |  |  |  |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **x** |  | **x** | **x** | **x** | **x** |  |  | **x** |
| Fang | Yonggang | ZTE TX Inc | **x** |  | **x** |  |  |  |  |  | **x** |
| Harrington | Tim | Pro ID & UWB Alliance | **x** |  | **x** |  |  |  |  |  |  |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** | **x** |
| Jeffries | Tim | FutureWei | **x** |  | **x** |  |  |  |  |  |  |
| Kain | Carl | Noblis, Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Kenney | John | Toyota ITC | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Kerry | Stuart | Ruckus/CommScope | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Lansford | Jim | Qualcomm |  |  |  | **x** |  |  |  |  |  |
| Lepp | James | BlackBerry | **x** |  |  |  |  |  |  |  | **x** |
| Lynch | Mike | MJLynch Assoc | **x** |  | **x** | **x** |  |  |  |  |  |
| Nikolich(lmsc) | Paul | Self and others | x |  | x | x | x |  |  | x | x |
| Palm | Stephen | Broadcom |  |  |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. |  |  |  | **x** |  |  |  |  | **x** |
| Sarris | Ioannis | u-blox |  |  |  |  |  |  |  |  |  |
| Shellhammer | Steve | Qualcomm |  |  |  |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE |  | **x** | **x** | **x** |  |  |  |  |  |
| Yaghoobi | Hassan | Intel Corporation | **x** |  | **x** | **x** |  |  |  | **x** | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** | | | | | | | | |
| **02aprr** | **31mar** | **26mar** | **19mar** | **18mar** | **17mar** | **16mar** | **13mar** | **12mar** |
| Au | Edward | Huawei | **c** |  | **x** |  |  |  |  |  |  | |
| Goldbberg | Jonathan | IEEE |  |  |  | **x** | **x** | **x** |  |  |  | |
| Haskou | Abdullah | Interdigital |  |  |  |  |  |  |  | **x** |  | |
| Hervieu | Lili | Cable TV Labs |  |  |  |  |  |  |  |  |  | |
| Levy | Joseph | Interdigital | **c** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | |
| Roy | Dick | Self |  | **x** | **x** | **x** | **x** | **x** | **x** |  |  | |
| Schiessl | Sebastian | u-blox | **c** | **x** | **x** | **x** | **x** | **x** | **x** |  |  | |
| Ward | Lisa | Rohde&Schwarz | **c** |  |  |  |  |  |  |  | **x** | |

Chair calls the meeting to order at 15:03 ET.

1. Chair presents slides 2 – 6 of 802.18-20/0053r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0053r01, the agenda:
   1. Call to Order
   2. Administrative items
      1. Someone to take some notes: Peter Ecclesine (Cisco)
   3. Approve agenda & last minutes
   4. Discussion items
      1. EU Items
      2. ITU-R Items
      3. FCC NPRM on 5.9GHz reply comments
      4. ITU-R SM.2352 submission
      5. ITU-R M.1450/M.1801 submissions
      6. General Discussion Items
   5. Actions required
      1. FCC NPRM updated reply comment inputs
      2. ITU-R submissions inputs
      3. Anything new today
   6. AOB and Adjourn
3. Chair presents slide 8, Administrative – Motions and more
   1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Vijay Auluck (Self)

Seconded by: Stuart Kerry (Ruckus/CommScope)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 26 March 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0051-00-0000-minutes-26mar20-rrtag-teleconference.docx> 27-Mar-2020 23:22:26 ET

Moved by: Peter Ecclesine (Cisco Systems)

Seconded by: Stuart Kerry (Ruckus/CommScope)

Discussion? None

Vote: Approved by unanimous consent

1. Chair presents slides 9-10-12, EU items to share
   1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meeting #105, 23–27Mar20, Sophia-Antipolis 🡸 f2f - cancelled**
      1. For 6 GHz, 2 web meetings have been announced.
      2. For Bran overall, a schedule is being sent out with call in info,
      3. Point is the BRAN chair is setting up a google calendar to do this and is part of the still evolving how to move everything to be online.
      4. Minutes for remote consensus has just come up, for the online meeting #105.
   2. **CEPT – ECC** [**<SE45>**](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next meeting #11, 14-16Apr20, online only**
      1. Chair uploaded report 316, the 2nd report. Public inquiry produced 11 documents with comments.
      2. Extended the call-in meeting to resolve comments to start the 14th and start time has shifted to help NAM.

* 1. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meeting #10, 12-14May20, Kristiansand, Norway**
     1. 2 call-ins in April, 07 & 17th, 1500-1700CET.

1. **Chair presents slide1 11, ITU-R items to share**
   1. FINAL ACTS OF THE WRC-19 NOW AVAILABLE ON-LINE FOR DOWNLOAD
      1. Available to all for [download](https://urldefense.proofpoint.com/v2/url?u=https-3A__gcc01.safelinks.protection.outlook.com_-3Furl-3Dhttps-253A-252F-252Fwww.itu.int-252Fpub-252FR-2DACT-2DWRC.14-2D2019-26data-3D02-257C01-257CNajarianPB-2540state.gov-257C8242efca777048773deb08d7d582b4b5-257C66cf50745afe48d1a691a12b2121f44b-257C0-257C0-257C637212629662417248-26sdata-3DF5Rd1mI5z3Efc9BGTWzf5oUypBFQqpY1Wu65d0k7ddM-253D-26reserved-3D0&d=DwMGaQ&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=5Y4bdaAffnVmfrZUPN7SQo866G70ZNPPMYY7_A7ZyHc&s=oO4_iXa0BjSX_oYniXZVCuAo7BQ-wXYYlom87RPlNkA&e=) with no registration
      2. The next step would be the publication of the 2020 edition of the Radio Regulations..  There is no actual timeframe; but normally it would be available around November/December.  The BR’s announcement is fairly confident to announce the “ITU Radio Regulations (edition of 2020).”
2. **Chair presents slide 12-14, FCC NPRM on 5.9 GHz reply comments** 
   1. **FCC NPRM on 5.9 GHz reply comments** 
      1. Mentor: <https://mentor.ieee.org/802.18/dcn/19/18-19-0163-02-0000-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx> **(🡺r**01**/02 Fed. Reg. some updates.)**
      2. <https://www.federalregister.gov/documents/2020/02/06/2020-02086/use-of-the-5850-5925-ghz-band>
   2. **Proceeding 19-138:**
      1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
   3. **Reply comments now due Monday 27 April, extension came out Wed. (25th)**
      1. Consensus last week was to keep the 1st reply comments going, but push filing out to near the new due date (and maybe with a supplement).
      2. Learned a simple date change was not possible.
      3. To move the date, the Chair let the EC know if they fail the first EC ballot, we can start a new ballot, just changing the date, not the document. And maybe with a supplement. This worked.
      4. In the meantime, received editorial inputs from three plus 1 EC members so the 1st reply comments have been basically EC reviewed and would anticipate it would pass.
      5. Updates per EC editorial feedback were done, r05, and reviewed in ad hoc Tuesday (31st).
         1. r05 (markup) has been uploaded as r06 a clean version.
      6. So to just have standing by, for the EC if needed, we need a new motion with the date adjusted also.
      7. Next, A member has proposed updated reply comments.
         1. Introduce in this meeting. It does restructure the previous reply comments, adds several different content updates, etc.
   4. **FCC NPRM – reply comments – extended date Revisiting-use-of-the-5850-5925-MHz-band**
      1. Chair presented a motion to re-approve the currently approved 1st reply comments, only changing to the new FCC due date and having ready for the EC of the proposed updated reply comments are not ready in time.
         1. The only updates to these reply comments were editorial updates requested from the EC the chair had been authorized to make.
         2. The if needed with chair to determine, maybe needs a foot note what is determined.
      2. After discussion will move this to next week and either vote on these 1st reply comments EC has reviewed with their updates, or the updated reply comments with additional content.
   5. **Options started with:** 
      1. 1 – stay with 18-20/0045r05 reply comments that the EC looks to be ready to approve
      2. 2 – stay with 18-20/0045r05 reply comments and add a supplement doc, per .18 consensus last week.
      3. 3 – start with 18-20/0045r05, keep as it is and add to it.
      4. 4 - new document for the EC
      5. 5 – other?
   6. Will introduce the contribution today (02Apr) and continue to review and update in ad hocs. See below for schedule
      1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0057>
   7. Ad hocs:
      1. Friday, 03April: 3pm-et (goal is last session for new content)
      2. Monday, 06April: 3pm-et (no new content after start of Monday’s adhoc, comes in before)
      3. Tuesday, 07April: 3pm-et (done, just clean up and final review to do)
      4. Wednesday, 08April: 11:30et- 1:00et (hard stop) (final clean up and ready for vote)
      5. Thursday 09April – Normal 802.18 weekly teleconference, just vote on final.
      6. r06 is good and is done or vote on supplement or vote updated document or vote on new document or \_\_\_\_\_\_
3. Chair presents slides 15 & 16, ITU-R SM.2352 on THz
   1. **From 802.15.3d, ITU-R SM.2352 on THz communications updates, standing by** 
      1. 802.15.3d has a draft of a submission to ITU-R on updates needed on SM.2352 and needs to get to ITR-R WP1A
      2. .15: <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>
      3. .18: (will be): <https://mentor.ieee.org/802.18/dcn/20/18-20-0052>
      4. WP1A meeting starts 29 May, so far
      5. Goal to have approved by 01 May so time to get submitted
      6. So best to approve in .18 by 16 April for either EC teleconference 21 Apr or a 10-day ballot.
      7. Reviewing now with ITU-R liaison and author.
4. Chair presents slides 17 & 18, **ITU-R M.1450/M.1801 updates**
5. **From 802.11 ad hoc, ITU-R M.1450/M.1801 updates**
   1. Latest drafts now on .18 mentor:
   2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0061-00-0000-itu-ahg-recommended-edits-to-m-1450-5.docx>
   3. [https://mentor.ieee.org/802.18/dcn/20/18-20-0060-00-0000-itu-ahg-recommended-edits-to-m-1801-2.docx](https://mentor.ieee.org/802.18/dcn/20/18-20-0062-00-0000-fcc-draft-r-o-nprm-promoting-unlicensed-use-of-the-6ghz-band-et-18-295.pdf)
6. **Met with key people the 25th. Current plan**
7. Submission of 802.11 ITU AHG recommendations to 802.11 & 802.18 after 30Mar meeting
8. Presenting to 802.18 today-May 2, 2020
9. 802.18 to ask for EC Approval for submission to WP 5A
   1. Approve in .18 in May, at latest.
   2. Early June EC meeting for IEEE 802 approval, currently scheduled for 02 June 2020
10. Working Party 5A Meeting (DELAYED), now meeting dates are: 20-30 July 2020
11. Deadline for contributions16:00 hours UTC: Monday, 13 July 2020
    1. Plan to have ITU liaison upload to ITU-R WP5A, 1st week of July
12. 802.11 ITU AHG Monitoring WP 5A after July 2020 for any needed contributions going forward
13. Earlier; Due to cancellation of the ATL March Plenary, the 802.11 ad hoc will bring the submission to 802.18 for approval and then LMSC(EC) approval for submission to ITU-R.
14. Chair presents slides 19, General discussion items FYI
    1. CHAIRMAN PAI PROPOSES NEW RULES FOR THE 6 GHz BAND, UNLEASHING 1,200 MEGAHERTZ FOR UNLICENSED USE
       1. *Draft Rules Would Provide a Boost to Wi-Fi and Other Unlicensed Uses While Protecting Incumbent Services in the Band*
       2. News Release: [Docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__docs.fcc.gov_public_attachments_DOC-2D363451A1.docx&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=qkYmo1P6XmH1YvH1UkP-tyoCfcURwF2UYPYmrj-ahdc&s=C2AkcvEPrUX932nUH8F7u7RFWhncPxXDubaY_WcjOgY&e=) [Pdf](https://urldefense.proofpoint.com/v2/url?u=https-3A__docs.fcc.gov_public_attachments_DOC-2D363451A1.pdf&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=qkYmo1P6XmH1YvH1UkP-tyoCfcURwF2UYPYmrj-ahdc&s=3-2YMV4qliTA8voQCWinMdolzW3BfdmvaW7A0T_8-Ps&e=) [Txt](https://urldefense.proofpoint.com/v2/url?u=https-3A__docs.fcc.gov_public_attachments_DOC-2D363451A1.txt&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=qkYmo1P6XmH1YvH1UkP-tyoCfcURwF2UYPYmrj-ahdc&s=6fWZ09fL_NPKQPaXI7BCsts058h9bU4VKsFjo6SoecE&e=)
       3. If adopted, the draft Report and Order would authorize two different types of unlicensed operations: standard-power in 850-megahertz of the band and indoor low-power operations over the full 1,200-megahertz available in the 6 GHz band. An automated frequency coordination system would prevent standard power access points from operating where they could cause interference to incumbent services.
       4. For draft of R&O and FNPRM:
       5. <https>[://www.fcc.gov/news-events/events/2020/04/april-2020-open-commission-meeting](https://www.fcc.gov/news-events/events/2020/04/april-2020-open-commission-meeting)
    2. FCC Grants WISPs Temporary 5.9 GHz Spectrum Access for Rural Broadband
       1. News Release: [DocxWord Download](https://docs.fcc.gov/public/attachments/DOC-363358A1.docx) [PdfPDF Download](https://docs.fcc.gov/public/attachments/DOC-363358A1.pdf) [TxtDocument Download](https://docs.fcc.gov/public/attachments/DOC-363358A1.txt)
       2. [WISP STA](https://www.fcc.gov/document/fcc-grants-wisps-temporary-59-ghz-spectrum-access-rural-broadband/attachment): [Pdf](https://docs.fcc.gov/public/attachments/DOC-363358A2.pdf)
       3. WASHINGTON, March 27, 2020—The FCC’s Wireless Telecommunications Bureau today granted temporary spectrum access to 33 wireless Internet service providers serving 330 counties in 29 states to help them serve rural communities facing an increase in broadband needs during the COVID-19 pandemic. The Special Temporary Authority (STA) granted today allows these companies to use the lower 45 megahertz of spectrum in the 5.9 GHz band for 60 days.
15. Chair presents slide 20, Actions required
    * **FCC NPRM on 5.9GHz reply comments input.**
    * **ITU-R SM.2352 submission from 802.15 Terahertz IG, inputs from anyone.**
    * **ITU-R M.1450 & M.1801 submissions from 802.11, inputs from anyone.**

* **Start to consider what are IEEE 802 viewpoints are for WRC-23 agenda items.** 
  1. Ongoing:
     1. WPT use of license-exempt bands and UWB in cell phones
     2. Digital Divide, how can we help?

1. Chair presents slide 21 Any Other Business
2. Chair presents slide 22, Adjourn
   1. **Next weekly teleconference (scheduled to 03sep): 09Apr20–*15:00–<15:55* ET** 
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-14-0000-teleconference-call-in-info.pptx> (or latest)
      2. All late changes/cancellations will be sent out to the 802.18 list server.
   2. **Note: current call-in, r14 is good through 07 May and is not on the IEEE new teleconference calendar.** <http://ieee802.org/802tele_calendar.html>
      1. Starting 14 May, there will be a new call-in, using the IEEE Seat 4 webex
         1. Have to copy out of the calendar and past into word to get the link,
      2. Or, on the .18 web page or in the next call-in doc18-16-0038r15.
   3. Adjourn:
      1. Any objection to Adjourn.
      2. None heard, Adjourn at 15:58et
   4. The next face to face meeting is tbd, possibly Montreal in July. Stay tuned.
      1. Warsaw Wireless Interim was cancelled.
   5. **Thank You**