IEEE P802.18  
Radio Regulatory Technical Advisory Group (RR-TAG)

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| Radio Regulatory Technical Advisory Group Minutes  July 2023 Mixed-Mode IEEE 802 Plenary Session | | | | |
| Date: 10 Aug, 2023 | | | | |
| Author: | | | | |
| Name | Company | Address | Phone | email |
| Al Petrick | Skyworks Solutions |  |  | apetrick@IEEE.org |
| Stuart J Kerry | OK-Brit; Self |  |  | stuart@ok-brit.com |
|  |  |  |  |  |

Abstract

This document constitutes the minutes of the IEEE 802.18 Radio Regulatory Technical Advisory Group for the July 2023 Mixed Mode IEEE 802 Plenary Session, with on-site participants in Berlin, Germany, and remote participants through Webex. "Local time" in this document means "local time" in Berlin, Germany (GMT+2).

**C:** means question or comment from participant.

**Chair:** means statement by the chair as chair.  
Highlight means action point.

Chair: Edward Au (Huawei)

Co-Vice-chairs: Stuart Kerry (OK-Brit/Self) and Al Petrick (Skyworks Solutions)

Secretary: Amelia Andersdotter (Comcast)

IEEE SA Program Manager: Jodi Hassz (IEEE SA)

* IEEE 802.18, RR-TAG website: <https://www.ieee802.org/18/>

Chair: Edward Au (Huawei)

Co-Vice-chairs: Stuart Kerry (OK-Brit; Self) and Al Petrick (Skyworks Solutions)

Secretary: VACANT (Open position)

IEEE SA Program Manager: Jodi Hassz (IEEE SA)

IEEE 802.18, RR-TAG website: <https://www.ieee802.org/18/> .

**Opening meeting – July 11th, 2023**

1. Opening formalities
2. Chair calls the meeting to order at 10:32AM CEST local time. Quorum is asserted.  
     
   Agenda slide deck [**18/23-0060r4**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0060-04-0000-rr-tag-2023-july-plenary-agenda.xlsx&wdOrigin=BROWSELINK) with supplementary materials in [**18/23-0061r4**](https://mentor.ieee.org/802.18/dcn/23/18-23-0061-04-0000-2023-march-rr-tag-supplementary-materials.pptx)
3. Group officers are presented.

Co-ViceChair: Al Petrick volunteered as secretary for the July 2023 plenary session.

1. This meeting is part of the IEEE 802 mixed mode plenary session in Berlin, Germany organized between 09 July and 14 July 2023.

* You **must** pay the registration fee in order to attend
* If you have not already done so, you can register w/Face to Face Events – Registration website at: [**https://cvent.me/AwPbAx**](https://cvent.me/AwPbAx)
* If you do not intend to register for this session you must leave this meeting and, if you have logged attendance on IMAT, please email the 802.18 chair or a vice chair to have your attendance canceled
* At conclusion of each of the 802.18 calls, the Webex log and IMAT will be reviewed.
* No payment, become dead beat and lose voting rights in all groups, after 60-day grace.

Chair shares 802 deadbeat (list), [ec/22-0247r5](https://mentor.ieee.org/802-ec/dcn/22/ec-22-0247-05-00EC-deadbeat-list.pdf), with group, including one for 802.18.

1. Chair presents the agenda.   
     
   No comments or questions on the agenda.  
   * + **Motion #1 (internal):** To approve the agenda as shown in the “RR-TAG Opening” tab of the document [**18/23-0060r4**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0060-04-0000-rr-tag-2023-july-plenary-agenda.xlsx&wdOrigin=BROWSELINK)

Moved by: Jim Lansford

Seconded by: Rich Kennedy

Discussion? None

Vote: Approved with unanimous consent.

1. Voter list update.  
     
   Group officers and voting membership (as of 11 July 2023)

Voters: 56 (8 on LMSC)

Nearly Voters: 0

Aspirant members: 9

[802.18 Voters List](https://www.ieee802.org/18/RRTAG_Voters.pdf)

1. **Policies and procedures**  
   1. RR-TAG Policies & Procedures [[802 LMSC WG P&P](https://mentor.ieee.org/802-ec/dcn/21/ec-21-0207-23-0PNP-ieee-802-lmsc-working-group-policies-and-procedures.pdf)]

IEEE 802 meeting and participant’s guidelines and requirements [[link](http://www.ieee802.org/devdocs.shtml)]

IEEE policies and procedures [[link](https://standards.ieee.org/about/policies/opman/)]

* 1. Reciprocal credit with IEEE 802.11 Working Group (WG) is granted for only the two meeting slots scheduled for IEEE 802.18 as per agreement between the 802.11 and 802.18 chairs.
  2. **Reminder that IMAT is being used for attendance**

Online meeting procedures reminder

Walk-through of session schedule.

Chair asks group if there are any questions relating to the IEEE policies.

No response, no comments on WebEx Chat window.

1. **General business**  
   1. **Minutes**

* Chair presented the meeting minutes from RR-TAG 2023 May Mixed Mode Wireless Interim session. No questions or comment.  
   **Motion #2 (internal):** To approve the meeting minutes of the RR-TAG 2023 May wireless   
  interim session as shown in the document [**18-23/0063r0**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0063-00-0000-rr-tag-may-2023-interim-minutes.docx&wdOrigin=BROWSELINK), with editorial privilege for the 802.18 Chair.

Moved by: Stuart Kerry

Seconded by: Jim Lansford

Discussion? None.

Vote: Approved with unanimous consent.

* 1. **Opening reports**
     + **Presentation of 802.18 opening report (**[**18/23-0062r2**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0062-02-0000-2023-july-rr-tag-chair-opening-report.pptx&wdOrigin=BROWSELINK)**),** Edward Au (Chair)
     + Chair presented progress since the interim meeting in May 2023.
     + Chair: Secretary position is vacant; issued a Call for Secretary, any interested member please reach out to 802.18 Chair, Edward Au.
     + **Update on IEEE Spectrum Statement (ISUS) Ad-hoc**, Edward Au (Chair)
     + Chair: Currently waiting for feedback and comments from IEEE SA on the document.  
       C: Need to check with IEEE SA to provide a timeline on the availability of comments and feedback.

1. **Status of ongoing consultations and TAG documents for approval (**[**18/22-0035r81**](https://mentor.ieee.org/802.18/dcn/22/18-22-0035-81-0000-status-of-ongoing-consultations-and-tag-documents-for-approval.docx)**),** Edward Au (Chair)

Chair presents updates since the 2023 May wireless interim.  
Chair: 802 EC approved the following submissions.

* 1. **Taiwan MODA –Draft amendment of “Table of Radio Frequency Allocations of the Republic of China (Taiwan)”**Current status – 802.18 and 802 EC approved reply document. Waiting decision from Taiwan MODA.
  2. **Taiwan MODA – Draft amendment of “Radio Frequency Supply Plan”**   
       
     Current status – 802.18 and 802 EC approved reply document. Waiting decision from Taiwan MODA.
  3. **China MIIT** consultation “Technical requirements and test methods for new type approval of wireless LAN equipment adopting IEEE 802.11be technical standards”

Current status – 802.18 and 802 EC approved reply document. Waiting decision from China MIIT.

* 1. **UAE TDRA** consultation “TDRA Regulations– Ultra Wide Band and Short Range Devices”

Current status – 802.18 and 802 EC approved reply document. Waiting decision from China MIIT.

* 1. **Status of Ongoing consultations** – internal deadline to prepare responses.
     + **Japan MIC:** [Call for comments on the draft ministerial ordinance for partial revision of the Ordinance for Radio Equipment](https://www.soumu.go.jp/menu_news/s-news/01kiban12_02000150.html).
       1. 8:00am CEST, 13 July 2023
     + **Singapore IMDA**: [Draft Technical Specifications for Short Range Devices (IMDA Issue 1, Revision 3)](https://www.imda.gov.sg/-/media/imda/files/regulation-licensing-and-consultations/ict-standards/telecommunication-standards/imda-technical/draft-imda-ts-srd-2023.pdf)
       1. 8:00am CEST, 13 July 2023

Chair reviews - IMDA Table 1: Technical Requirements for Short Range Devices (SRD).

**Discussion:**

C: 45a is a 6 GHz low power device

C: 45b is based on EN 303687, FCC part 15E

C: Does the document discuss narrowband (NB)?

C: No just wideband only! Part 15 does not have NB.

C: Does EN 303 687 have narrowband (NB)?

C: It has a partial consideration for NB. Partial means based on ECC and NBFH shall be permitted.

C: Current version implies load-based equipment. This is not optimal for ETSI.

C: NB is < 1 MHz.

* + - **EC RSPG**: [Public Consultation on the Draft RSPG Opinion “The development of 6G and possible implications for spectrum needs and guidance on the rollout of future wireless broadband networks”](https://radio-spectrum-policy-group.ec.europa.eu/document/download/9cea690e-cc9a-4a14-920a-8c79dfa528e2_en?filename=RSPG23-026final-draft_RSPG_Opinion_on_6G_development_with_Annexes.pdf)
      1. 3:00pm ET, 10 August 2023

Chair reviewed draft RSPG opinion document with group: (RSPG-026final-draft)   
Chair: “This activity has included inviting presentations and/or organizing stakeholders’ workshop, also to address the issue of spectrum demand for unlicensed devices, including WAS/RLAN, and of non-terrestrial networks to maximize 6G coverage.”

Chair asks group for comments and questions.

No response from the group.

* + - **UK Ofcom:** [Consultation: Hybrid sharing: enabling both licensed mobile and Wi-Fi users to access the upper 6 GHz band](https://www.ofcom.org.uk/consultations-and-statements/category-1/hybrid-sharing-to-access-the-upper-6-ghz-band?utm_medium=email&utm_campaign=Sharing%206%20GHz%20spectrum%20for%20Wi-Fi%20and%20mobile&utm_content=Sharing%206%20GHz%20spectrum%20for%20Wi-Fi%20and%20mobile+CID_d5d87731c29b201f83e1ae761599b562&utm_source=updates&utm_term=new%20approach%20being%20explored%20by%20Ofcom).
      1. 3:00pm ET, 24 August 2023

Chair asks group if there any members interested in providing a response to the consultations.

No response from the group.

1. **General Discussion Items**
   1. **Europe, Middle East and Africa**
      * **Update from ETSI/BRAN,** Guido Hiertz (ETSI BRAN Chair, Ericsson) **(**[**11/23-1230r1**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.11%2Fdcn%2F23%2F11-23-1230-01-coex-updates-etsi-tc-bran.pptx&wdOrigin=BROWSELINK)**)**

**C:** ETSI has three standards; EN 303 687 (6 GHz Was/RLAN), EN 303 753 (57-71 GHz band) and EN 301 893 (5 GHz WAS/RLAN).

**C:** EN 303 887 (6 GHz WAS / RLAN) was completed and the standard was approved without objection. The final version is published as 1.1.1. Congratulations to everyone that contributed to this standard.   
Next step: ETSI will forward this to the European Commission (EC) requesting to list the standard in the Official Journal of the EU (OJEU).

**C:** EN 303 753 (57-71 GHz band) submitted ENAP. This process will close 09/14/2023. In addition,   
EN 303 753 was submitted for HASTAC review. It’s possible HASTAC review might impact ongoing ENAP process. ETSI must published the standard with no comments.

**C**: EN 301 893 (5 GHz WAS/RLAN) draft has one remaining discussion item Energy Detection Threshold (EDT). Members disagree on the EDT text in the draft. The group continues to work towards consensus on agreeable text.

Chair asks the group for any questions or comments.

No response from the group.

* 1. **Americas – USA FCC**

The next FCC meeting an [Open Commission Meeting](https://www.fcc.gov/news-events/events/2023/07/july-2023-open-commission-meeting) scheduled on 20 July 2023 starting at 10:30 ET

Chair asks the group for any questions or comments.

No response from the group.

* 1. **Asia/Pacific**

IEEE 802 is now a related organization of APT.

On 28 June 2023, China MIIT published a [news release](https://www.miit.gov.cn/xwdt/gxdt/sjdt/art/2023/art_ba4e3b3d237f459fa501688ee859dfa3.html) informing the public that the [updated version](https://www.miit.gov.cn/cms_files/filemanager/1226211233/attach/20236/0f89200516d14ef2ba6b440539eec2e8.pdf) of the Regulations on Radio Frequency Allocation of the People's Republic of China, which is effective from 1 July 2023, identifies all or part of the 6425 MHz to 7125 MHz frequency bands for IMT.

* 1. **ITU-R**

No updates

1. **New business**
   1. **Draft Proposal for Liaison Statement to APG23-6, Thomas Kurner (TU Braunschweig) (**[**18/23-0073r0**](https://mentor.ieee.org/802.18/dcn/23/18-23-0073-00-0000-draft-proposal-for-liaison-statement-to-apg23-6.docx)**)**

Thomas Kurner reviewed the liaison statement draft text with the group and explained the purpose of the conclusion. The operating frequency range is 252 GHz to 325 GHz to address a WRC-27 agenda.

Chair asks the group if there are any comments or questions on the liaison statement.

No response from the group.

Chair will prepare a motion to approve the liaison statement during the Radio Regulatory TAG closing plenary meeting on Thursday 13 July, 2023.

* 1. **Draft Proposed Reply to Liaison Statement from ETSI ISG THz, Thomas Kurner (TU Braunschweig) (**[**18/23-0072r0**](https://mentor.ieee.org/802.18/dcn/23/18-23-0072-00-0000-draft-response-on-the-liaison-statement-from-etsi-isg-thz.docx)**)**

Thomas Kurner reviewed the draft text of the proposed reply to liaison statement from ETSI ISG THz

Chair asks the group if there are any comments or questions on the liaison statement.

No response from the group.

Chair will prepare a motion to approve the liaison statement during the Radio Regulatory TAG closing plenary meeting on Thursday 13 July, 2023.

* 1. **Update on Status of UWB regulation in Europe, Friedbert Berens, (FBConsulting Sarl) (**[**18/23-0071r1**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0071-01-0000-status-uwb-regulation-in-europe.pptx&wdOrigin=BROWSELINK)**)**

**C**: Friedbert Berens gave an update on the Status of UWB regulations in Europe. CEPT Report 84 has been published and forwarded to the EU commission as part of the UWB mandate of the EU Commission to CEPT. The updated EC decision is expected to include 6 GHz to 8.5 GHz until the end of 2023. There are no changes to sensor regulation. New period of UWG regulation update expected to start by the end of 2023.

Chair asks group if there are any comments or questions on the liaison statement.

No response from the group.

1. **Recess at 12:01 PM CEST local time (until Thursday AM 1, 13 July 2023)**

**Closing meeting – 13 July 2023**

1. **Opening formalities**
   1. Chair calls meeting to order at 08:00AM CEST local time. Quorum is declared.Agenda slide deck [**18/23-0060r5**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0060-05-0000-rr-tag-2023-july-plenary-agenda.xlsx&wdOrigin=BROWSELINK) with supplementary materials in [**18/23-0061r7**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0061-07-0000-2023-july-rr-tag-supplementary-materials.pptx&wdOrigin=BROWSELINK).
   2. Officer introduction.
   3. Reminder of registration fee was presented.
   4. Agenda review (see slide deck para 7.i).

Chair: Under agenda item New Business, added subclause 3.3 Timeline for ITU WP 5 submission - HassanYaghoobi. Agenda revision changes to revision r5.

**Motion #3 (internal):** To approve the agenda as shown in the “RR-TAG Closing” tab of the document [**18-23/0060r5**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0060-05-0000-rr-tag-2023-july-plenary-agenda.xlsx&wdOrigin=BROWSELINK)**.**

Moved by: Stuart Kerry

Seconded by: Guido Hiertz

Discussion? None

Vote: Approved with unanimous consent

1. **Policies and procedures**
   1. IEEE 802 required notices
      * Declaration of affiliation
      * Anti-trust notices
      * IEEE 802 WG policies and procedures
   2. Guidelines for IEEE SA meetings were introduced.
      * Reminder to object when inappropriate topics are discussed
      * IEEE 802 Code of Conduct and Code of Ethics were introduced.
      * Reminder of the IEEE SA individual process applied in IEEE 802 Committee.
      * Reminder of IEEE SA board bylaws specifying fair and equitable consideration of all viewpoints.

For links to relevant documents see para 2. above or consult the supplementary chair materials contained in document [**18/23-0061r7**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0061-07-0000-2023-july-rr-tag-supplementary-materials.pptx&wdOrigin=BROWSELINK) (linked under para. 7)

Chair asks for comments, questions, or concerns.

None reported.

* 1. Reminder of housekeeping and meeting decorum.

1. **Proposed Liaison statement to APG23-6 Meeting. (18-23/0073r1)**, Thomas Kuerner (TU Braunschweig)

See document **(**[**18-23/0073r1**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0073-01-0000-draft-proposal-for-liaison-statement-to-apg23-6.docx&wdOrigin=BROWSELINK)**)** for details on meeting venue time and location.

Document with editorial changes was presented on Tuesday 11 July 2023 during 802.18 opening. See para 6. above for discussion.

* 1. **Motion #4 (external):** Move to approve document [**18-23/0073r1**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0073-01-0000-draft-proposal-for-liaison-statement-to-apg23-6.docx&wdOrigin=BROWSELINK) in response to the liaison to the 6th Meeting of the APT Conference Preparatory Group for WRC-23 (APG23-6) for review and approval by the IEEE 802 LMSC for submission to APG. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.

**Moved:** Thomas Kurner

**Seconded:** Shigenobu Sasaki **Discussion:** None. **Result:** 13 Yes / 0 No / 2 Abstain **Remarks:** Chair did not vote.

1. **Reply to Liaison Statement from ETSI ISG THz (**[**18-23/0072r1**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0072-01-0000-draft-response-on-the-liaison-statement-from-etsi-isg-thz.docx&wdOrigin=BROWSELINK)**)**, Thomas Kuerner (TU Braunschweig)
   1. Liaison communications between ETSI Industry Specification Group (ISG) for Terahertz Communications (THG) and IEEE 802 LMSC
      * In January 2023, a [liaison](https://mentor.ieee.org/802.18/dcn/23/18-23-0024-00-0000-liaison-from-etsi-isg-thz-re-formation-of-a-new-etsi-isg-for-terahertz-communications-thz.docx) was received from ETSI ISG THz on its establishment.
      * In March 2023, IEEE 802 LMSC sent a [reply](https://mentor.ieee.org/802.18/dcn/23/18-23-0032-04-0000-response-of-ieee-802-to-liaison-statement-from-etsi-isg-thz.pdf) to the above-mentioned liaison statement.
      * On 7 July 2023, ETSI ISG THZ sent a [second liaison](https://mentor.ieee.org/802.15/dcn/23/15-23-0343-00-0thz-liaison-statement-from-etsi-isg-thz.docx) to IEEE 802 LMSC on its progress and a request.

**Discussion:**

Thomas Kuerner: Discussed document with group. Editorials changes were made on Tuesday 11 July, 2023. Planning to send a revised channel plan to ETSI.

No comments from the group.

* 1. **Motion #5 (external):** Move to approve document ([**18-23/0072r1**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0072-01-0000-draft-response-on-the-liaison-statement-from-etsi-isg-thz.docx&wdOrigin=BROWSELINK)**)** in response to the liaison statement from the ETSI Industry Specification Group (ISG) for Terahertz Communications (THz) for review and approval by the IEEE 802 LMSC for submission to ETSI ISG THz. The IEEE 802.18 Chair is authorized to make editorial changes as necessary.

**Moved:** Rich Kennedy

**Seconded:** Shigenobu Sasaki **Discussion:** None. **Result:** 15 Yes / 0 No / 2 Abstain **Remarks:** Chair did not vote.

1. **Spectrum Sensibilities: 2030 and Beyond, Rich Kennedy (Self)** ([**18-23/0070r0**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F23%2F18-23-0070-02-0000-spectrum-sensibilities-2030-and-beyond.pptx&wdOrigin=BROWSELINK)**)**
   1. The global RF spectrum maps represent decades of adding licensees and unlicensed/license-exempt spectrum based on available spaces, not optimization of the applications being supported. This had led to a very complicated, and in some cases unworkable situations for new technologies. The only real solution for the next 100 years is a full study of how best to remap spectrum based on today's understanding of spectrum needs, application optimization, and continued technology advances.
   2. Technology limitation misconfigured the RF spectrum of today. Early spectrum mapping was based on what’s possible now and not long term. Remapping spectrum must be reconsidered especially as THz becomes an option. Climate change and spectrum congestion are real issues.   
      The first step is remapping spectrum and consider requirements such as link range, link capacity, link resilience, 24/7/365 operation, transmit power source – batteries, solar, and ambient energy. Other attributes such as legacy protection – harmful interference. A good understand of spectrum inventory is needed to plan a way forward. Start with long-term thinking and planning – 40 year plan.

**Discussion**

**C:** What is harmful interference?

**C:** Should narrow the spectrum down to 1- 7GHz.

**C:** Should consider a band plan that is of interest to IEEE 802 wireless WGs.

**C:** Including THz is important.

**C:** The usable spectrum map covers a wide frequency range and Regulators know it’s challenging.

**C:** What is the approach going forward that is reasonable with IEEE 802 wireless resources?

**C:** Should consider a straw poll first to gauge view of the group --- remapping.

**C:** Strawpoll should a define scope and objectives – possibly setup as an ad-hoc group.

* 1. **Strawpoll 1** Do you agree that IEEE 802.18 Radio Regulatory TAG should consider a study of remapping of the RF spectrum with the objective of supporting better, more efficient utilization measures (such as greater capacity) and encouraging members to submit contributions on the structuring and scoping of the study?
     + Vote 13 Yes, 0 No, 2 Abstain

Chair suggestsRich Kennedy to engage with interest members off-line to define a scope using the 802.18 email reflector and provide a summary at one of the upcoming 802.18 meetings.

1. **Timeline for ITU-R WP 5A submissions – Hassan Yaghoobi (Intel)**

Chair: Timeline for submissions:

September 6 2023 is the deadline for WP5A submissions.

August 17, 2023 contributions need to be ready in 802.18 to review.

August 24, 2024 is deadline for any document for WP5A submission to 802 EC for approval.

1. **Closing formalities**
   1. **Future meetings.**The schedule for future meetings was approved. **Motion 6 (internal):** The 802.18 Chair or Chair designee is directed to conduct, as necessary, the following weekly teleconference calls through 26 January 2024

RR-TAG calls on Thursdays at 15:00 ET for 55 mins  
ISUS ad-hoc calls on Fridays at 12:00 ET for 60 minutes

**Moved:** Stuart Kerry **Seconded:** Rich Kennedy

**Discussion:** None **Result:** Approved by unanimous consent.

The new teleconference schedule can be found in document **(**[**18/16-0038r33**](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fmentor.ieee.org%2F802.18%2Fdcn%2F16%2F18-16-0038-33-0000-teleconference-call-in-info.pptx&wdOrigin=BROWSELINK)**)**.

* 1. **Reminder of registration for next meeting**
  2. **Surveying the group on behalf of LMSC  
       
     Strawpoll 2:** If the September 2023 wireless interim is held in as a mixed-mode session, will you attend:   
     Attend in-person: 9  
     Attend virtually (remotely): 4  
     Will not attend: 2  
     Abstain: 0  
      **Strawpoll 3:** If the November 2023 Plenary Session is held as a mixed-mode session, will you attend:   
     Attend in-person: 9  
     Attend virtually (remotely): 6  
     Will not attend: 0  
     Abstain: 0  
      **Strawpoll 4:** If the July 2023 Plenary Session is held as a mixed-mode meeting, would you a  
     Attend in-person: 19  
     Attend virtually (remotely): 8  
     Will not attend: 0  
     Abstain: 0

**C:** Jody Haasz - would like to run a straw poll using “direct vote live”. Jody will work with Chair using the 802.18 email reflector to run a live demo with the group.

**C**: Co-Vice Chair Stuart Kerry supports the straw poll test using “direct vote live”.

**C:** Jody Haasz: Jody is the only group administrator. There will be 2 administrators:   
Jody and 1 RR- TAG member.

1. **Any other business**
   1. A reminder to register and log in to IMAT.
   2. July Plenary 802 Wi-Fi network: feedback from member. The Wi-Fi routers may have been configured for US and not Germany. The transmit power limit may have exceed the national regulation in Germany. US permits RLAN operation in the 5.8 GHz band. 5.8 GHz operation must not be used in Europe for RLANs, only for Broadband Fixed Wireless Access or   
      short-range devices. Member noticed the meeting RLANs used channels 149, 157 that are in the 5.8 GHz band. The APs may have been configured US to transmit as 25 mW EIRP. The US clients might have used high transmit power because they assume US power limits. If a Wi-Fi doesn’t exceed the 25mW EIRP limit it may use the 5.8 GHz band.

802.18 Chair is directed to bring this matter to the meeting organizer in 802 LMSC.

1. **Final administrative items**
   1. Next weekly teleconference call scheduled for: 27 July 2023, 15h00 ET USA.
      * 1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-33-0000-teleconference-call-in-info.pptx>
        2. Next IEEE 802.18 meeting will be conducted during the IEEE 802 Wireless Interim Session on 10-15 September 2023 in Atlanta, Georgia, USA. It is a credited session.
        3. Currently, RR-TAG weekly teleconferences are scheduled from 1 June to 21 September 2023.
        4. Currently, RR-TAG ISUS ad-hoc weekly teleconferences are scheduled from 1 June to 21 September 2023.
        5. All late changes/cancellations will be sent out to the 802.18 list server.
        6. Overall IEEE 802 schedule: <https://ieee802.org/16/cal-temp.html> or only 802.18: [IEEE 802.18 TAG Calendar](https://calendar.google.com/calendar/embed?src=c2gedttabtbj4bps23j4847004@group.calendar.google.com&ctz=America%2FNew_York)
   2. Adjourn:

* Any objection to Adjourn? None heard.
* Adjourn at 09:44AM CEST local time

**ATTENDANCE (Plenary Attendance Names and Affiliations) [Report by Stuart Kerry]:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | | | | | | | | | | | | | | | | | | | | | |  |  | | **Attendees Voters Non-Voters**  **11-Jul 46 36 10**  **13-Jul 39 32 7** | | | | | | | | | | | | | | | | | | | | | |  |  | |  |  | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Voting Attendees:** | | | | **11-Jul** | **13-Jul** | **Credit >75%** | | 1 | **Asai** | Yusuke | NTT ASLabs | **x** | **x** | **TRUE** | | 2 | **Au** | Edward (Kwok Shum) | Huawei Technologies Co., Ltd | **x** | **x** | **TRUE** | | 3 | **Baykas** | Tuncer | Ofinno | **x** | **x** | **TRUE** | | 4 | **Berens** | Friedbert | FBConsulting Sarl | **x** | **x** | **TRUE** | | 5 | **Boldy** | David | Broadcom Corporation | **x** | **x** | **TRUE** | | 6 | **da Silva** | Claudio | Meta Platforms, Inc. | **x** | **x** | **TRUE** | | 7 | **de Vegt** | Rolf | Qualcomm Incorporated | **x** | **x** | **TRUE** | | 8 | **Eitan** | Alecsander | Qualcomm Incorporated | **x** | **x** | **TRUE** | | 9 | **Fang** | Yonggang | MediaTek | **x** | **x** | **TRUE** | | 10 | **Godfrey** | Tim | Electric Power Research Institute, Inc. (EPRI) | **x** | **x** | **TRUE** | | 11 | **Halasz** | Dave | Morse Micro | **x** |  | **FALSE** | | 12 | **Hiertz** | Guido | Ericsson GmbH | **x** | **x** | **TRUE** | | 13 | **Jeffries** | Timothy | FutureWei Technologies, Inc. | **x** | **x** | **TRUE** | | 14 | **Jones** | Vincent Knowles IV | Qualcomm Incorporated | **x** | **x** | **TRUE** | | 15 | **Kennedy** | Richard | Self | **x** | **x** | **TRUE** | | 16 | **Kerry** | Stuart | OK‐Brit, Self | **x** | **x** | **TRUE** | | 17 | **Kitazawa** | Shoichi | Muroran Institute of Technology | **x** | **x** | **TRUE** | | 18 | **Kürner** | Thomas | TU Braunschweig | **x** | **x** | **TRUE** | | 19 | **Lansford** | James | FaraFir Consulting | **x** |  | **FALSE** | | 20 | **Levy** | Joseph | InterDigital, Inc. | **x** | **x** | **TRUE** | | 21 | **Li** | Huan‐Bang | National Institute of Information and Communications Technology (NICT) | **x** |  | **FALSE** | | 22 | **Max** | Sebastian | Ericsson AB | **x** | **x** | **TRUE** | | 23 | **Petrick** | Al | Skyworks Solutions Inc. | **x** | **x** | **TRUE** | | 24 | **Pettersson** | Charlie | Ericsson AB | **x** |  | **FALSE** | | 25 | **Porat** | Ron | Broadcom Corporation | **x** | **x** | **TRUE** | | 26 | **Robert** | Joerg | TU-Ilmenau/Fraunhofer IIS | **x** | **x** | **TRUE** | | 27 | **Sand** | Stephan | German Aerospace Center (DLR) | **x** | **x** | **TRUE** | | 28 | **Sasaki** | Shigenobu | Niigata University, Japan | **x** | **x** | **TRUE** | | 29 | **Sato** | Naotaka | Sony Group Corporation | **x** | **x** | **TRUE** | | 30 | **Shen** | Andy | FutureWei Technologies, Inc. | **x** | **x** | **TRUE** | | 31 | **Sherlock** | Ian | Texas Instruments | **x** | **x** | **TRUE** | | 32 | **Verso** | Billy | Qorvo | **x** | **x** | **TRUE** | | 33 | **Wang** | Lei | FutureWei Technologies, Inc. | **x** | **x** | **TRUE** | | 34 | **Ward** | Lisa | Rohde & Schwarz | **x** | **x** | **TRUE** | | 35 | **Wilhelmsson** | Leif | Ericsson AB | **x** |  | **FALSE** | | 36 | **Yaghoobi** | Hassan | Intel Corporation |  | **x** | **FALSE** | | 37 | **Yu** | Ross (Jian) | Huawei Technologies Co., Ltd | **x** | **x** | **TRUE** | |  |  |  |  |  |  |  | | **Non-Voting Attendees:** | | | | **11-Jul** | **13-Jul** | **Credit >75%** | | 1 | **Chang** | Eason (Chen-Yi) | MediaTek | **x** | **x** | **TRUE** | | 2 | **Di Taranto** | Rocco | Ericsson AB | **x** |  | **FALSE** | | 3 | **Emmelmann** | Marc | Self | **x** |  | **FALSE** | | 4 | **Haasz** | Jodi | IEEE SA |  | **x** | **FALSE** | | 5 | **Lalam** | Massinissa | Sagemcom Broadband SAS | **x** | **x** | **TRUE** | | 6 | **Mano** | Hiroshi | Koden Techno Info K.K. | **x** | **x** | **TRUE** | | 7 | **Ogawa** | Hiroyo | National Institute of Information and Communications Technology (NICT) | **x** | **x** | **TRUE** | | 8 | **Rolfe** | Benjamin | Blind Creek Associates | **x** |  | **FALSE** | | 9 | **Serafimovski** | Nikola | pureLiFi |  | **x** | **FALSE** | | 10 | **Sinn** | Ulrch | Siemens AG; Siemens Corporation | **x** |  | **FALSE** | | 11 | **Val** | Inaki | MaxLinear | **x** |  | **FALSE** | | 12 | **Zuniga** | Juan Carlos | Cisco Systems, Inc. | **x** | **x** | **TRUE** | |