

[97e-04-ITU-R] ITU discussion - Version 0.0.5

RAN

3GPP TSG RAN#97e

RP-222564

Electronic Meeting, September 12-16, 2022

Agenda items 8/8.1/8.2/8.4

Source: RAN ITU-R AH convener (Telecom Italia)

Document for: Information & Decision

The discussion in this thread covers topic #4 [97e-04-ITU-R].

Please note that since documents have to be submitted to SA for their approval, **I plan to finalize the discussion by Wednesday 14th, 11:00 UTC.**

As a consequence, the timeplan for E-mail discussion is the following:

- **Initial discussion:** from Monday 12th 07:00 UTC to Tuesday 13th 12:00 UTC
- **Final discussion:** from Tuesday 13th 15:30 UTC to Wednesday 14th 11:00 UTC

The Chair indicated the following documents falls under this mail discussion: RP-221905, 1906, 1912, 1915, 1916, 2161, 2162, 2313, 2314, 2315, 2538.

Tdoc	Title
RP-221905	LS on Development of a draft new Report ITU-R M.[IMT.MULTIMEDIA] - Capabilities of the terrestrial c
RP-221906	LS on Invitation to update the information in the IMT-2020 and beyond roadmap (JCA-IMT2020-LS11; to:
RP-221912	Draft reply LS to ITU-R WP5D/TEMP/482(Rev.1) = RP-212699 on work towards two new recommendatio
RP-221915	DRAFT LTI in reply to ITU-R WP5D/TEMP/658(Rev.2) = RP-221905 on Development of a draft new Rep
RP-221916	Draft reply LS to ITU-R WP5D/TEMP/482(Rev.1) = RP-212699 on work towards two new recommendatio
RP-222161	Draft LS on 3GPP submission process towards M.2012-6 (IMT-Advanced)
RP-222162	Draft LS on 3GPP submission process towards M.2150-2 (IMT-2020)
RP-222313	Draft reply LS to ITU-R WP5D/TEMP/482(Rev.1) = RP-212699 on work towards two new recommendatio
RP-222314	On inclusion of Rel-17 in M.2150
RP-222315	On inclusion of Rel-17 in M.2012
RP-222538	Draft LS on 3GPP submission process towards M.2012-6 (IMT-Advanced)

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# 1 Initial Round

## 1.1 Discussion and proposals

### 1.1.1 IMT.MULTIMEDIA

Relevant documents: 1905, 1915

WP5D requested 3GPP to provide contributions to their new report on IMT.MULTIMEDIA. Deadline for contributions: WP5D meeting in October, latest WP5D meeting in February, 2023.

ITU-R AH prepared a draft answer to this LS in RP-221915 indicating a list of references to 3GPP specifications and indicating a possible subsequent answer in December.

#### **SA should verify if they want to add any relevant specification**

The document should be approved by SA and finally by PCG

**Proposal:** It is proposed to note RP-221905 and endorse the draft answer in RP-221915. A new document number will be requested to submit the approved version to SA

Companies are encouraged to provide feedbacks on the moderator's proposal

#### **Feedback Form 1:**

<b>1 – Qualcomm Incorporated</b>
we have some comments on 1915..will wait for a folder to be created in DRAFTS to upload our suggested edits
<b>2 – Qualcomm Incorporated</b>
See proposed revision here: <a href="https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_97e/Inbox/Drafts/%5B97e-04-ITU-R%5D">https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_97e/Inbox/Drafts/%5B97e-04-ITU-R%5D</a>  Main motivation behind the changes: minimize discussion on relevant S1 TSs/TRs (behind 22.261), specific 916/917 sections, etc...and leave it up to our detailed/final input discussion (together with SA).
<b>3 – Huawei Tech.(UK) Co.. Ltd</b>
Huawei support the draft answer in RP-221915, and we are also fine with the simplified and edited version from Qualcomm.
<b>4 – Beijing Xiaomi Mobile Software</b>
propose a small editorial for the Qualcomm update

## **5 – Ericsson LM**

The edits by Qualcomm in general okay. However we think it would be good to keep the deleted sentence "3GPP would like to ... confirm that the service requirements are specified in 3GPP TS 22.261". This as ITU is providing requirements and not features therefor it would make sense to point to the requirements in 3GPP.

## **6 – ZTE Corporation**

We prefer the original version in RP-221915 since this will give more information to ITU-R. Otherwise, the LS may not be so useful. Given that details like "potential gaps with regard to 3GPP relevant features (from Rel-16 onward)" may be provided by 3GPP later (as mentioned in the draft), it is better to let ITU-R at this time what relevant features have been introduced in Rel-17. Also, we are not sure when/how the "potential gaps" are identified if we say 3GPP plans to do that.

### 1.1.2 IMT-2020 and beyond roadmap

Relevant document: 1906

This is another follow up from ITU-T JCA-IMT2020 asking for updates on the roadmap of IMT-Advanced.

**Proposal:** Since the document is not RAN related, it is proposed to note it

Companies are encouraged to comment on the moderator's proposal

**Feedback Form 2:**

<b>1 – Qualcomm Incorporated</b> QC agrees with the proposed way forward
<b>2 – Spark NZ Ltd</b> agreed as per Qualcomm
<b>3 – Huawei Tech.(UK) Co.. Ltd</b> Huawei agrees with the proposal
<b>4 – Beijing Xiaomi Mobile Software</b> agree
<b>5 – ZTE Corporation</b> Agree

1.1.3 Generic unwanted emission characteristics of base stations/mobile stations using the terrestrial radio interfaces of IMT-2020

Relevant documents: 1912, 1916, 2313

ITU-R WP5D asked 3GPP to contribute on a new Recommendation on unwanted emission characteristics. TSG RAN mandated RAN4 and RAN5 to prepare an answer (see 1912 and 1916, respectively). Document 2313 provides a proposed answer.

The document should be approved by SA and finally by PCG

**Proposal:** note 1912 and 1916 and endorse the draft answer in RP-222313. A new document number will be requested to submit the approved version to SA

Companies are encouraged to comment on the moderator’s proposal

**Feedback Form 3:**

<b>1 – Qualcomm Incorporated</b> QC agrees with the moderator proposal
<b>2 – Nokia Corporation</b> Support the proposal

### 3 – Huawei Tech.(UK) Co.. Ltd

Huawei agrees to send the annexes developed by RAN4 and RAN5 in an LS to WP5D as drafted in RP-222313.

### 4 – Beijing Xiaomi Mobile Software

agree with moderators proposal

#### 1.1.4 IMT-Advanced

Relevant documents: 2161, 2315, 2538

The finalization of the submission of 3GPP material for inclusion in Revision 6 of Rec. M.2012 (IMT-Advanced) is due in December (RAN#98).

Document 2161 is revised in 2538 and provides a list of actions to be completed for the submission. The document also proposes to task ITU-R Ad-Hoc to finalize the material to be submitted to ITU-R. The document is a draft LS to SA, PCG and OP to inform them of the action plan.

**Proposal 1:** it is proposed to endorse 2538 and to task ITU-R Ad-Hoc to finalize the submission to ITU-R. A new document number will be requested to submit the approved version to SA, PCG and OP.

Document 2315 is a company input providing a first proposal for the finalization of the material to be submitted to ITU-R. Since the finalization is planned in December, it is proposed to note the document.

**Proposal 2:** note 2315

Companies are encouraged to provide feedbacks on the moderator's proposals

#### Feedback Form 4:

### 1 – Ericsson LM

#### **On Proposal 1:**

In 2315, proposal 2 the second subbullet is referencing the wrong section. Should this not instead be Annex 1 (3GPP); section 1(description text) and 2 (detailed specification)? The reason we bring this up is that section 1.3 is proposed to be changed in 2315 (we can discuss of course if we should do that or not later). If we want to keep the section number we propose to phrase it as follows (with strikethrough shown below):

**Proposal 2: task ITU-R Ad-hoc to provide a draft LTI (Letter To ITU) by TSGs#98 on LTE-Advanced update, containing:**

- Revised Annex 1 of Rec. ITU-R M.2012-5 (sections 1-~~1~~ and 1-~~2~~ and their subsections, as appropriate)
- Compliance templates 4.2.4 from Report ITU-R M.2133-0 (2008)
- Reminder for OPs 3GPP OPs to send to ITU-R WP5D the Certification B duly signed by January 24th, 2023

## 2 – Huawei Tech.(UK) Co.. Ltd

Huawei agrees with the proposal in 2538, including the timeline for updating M.2012 with Rel-17 based on Dec 2022 specs, with the corrections to the referenced sections in proposal 2 in 2538 as pointed out by Ericsson.

Regarding the compliance template, RAN could perhaps take the simpler approach to indicate that the performance requirements are still met by release 17, without repeating all the numbers provided with the Rel-15/Rel-16 submission, since there has been no re-evaluation with Rel-17. This approach is proposed for M.2150, why not also do the same for M.2012?

- as written in 2162: "for the compliance template for technical performance it is proposed to indicate the fulfilment of the requirements without specifying any value (they were indicated in the original submission) and adding as clarifying note: "Improves on the technology originally being submitted in IMT-2020/13 and therefore the conclusions expressed in ITU-R Report M.2483 sect. 5.2.1 remains valid"

Agree to note 2315. Some initial feedback on 2315:

- The file with name "R-REC-M.2012-6.docx" should not directly be named as such, but as a text proposal from 3GPP towards the next update of R-REC-M.2012-5.
- Section 4.2.4.2 Compliance template for spectrum relative to the FDD component RIT spectrum section includes TDD bands. It seems TDD bands should not be included in that table.
- Section 4.2.4.2 (duplicated) Compliance template for spectrum relative to the TDD component RIT spectrum section includes FDD bands. It seems FDD bands should not be included in that table.

## 3 – Huawei Tech.(UK) Co.. Ltd

As a follow-up to our previous comment, we realized that already we took the same approach for M.2012, since the values are indeed left empty and the internal 3GPP editor's note clarifies this in the compliance template. So please ignore the second part of our earlier comment.

*[Internal 3GPP Editor's note : consistent with footnote 3 on the table below it is not required to provide a value when yes is the answer. The comment proposed « Improves on the technology originally being submitted in ADV/8 and therefore the conclusions expressed in ITU-R M.2198 sect. 5.2.5 remains valid. » is self explanatory in this case and therefore no value is necessary.]*

### 1.1.5 IMT-2020

Relevant documents: 2162, 2314

The finalization of the submission of 3GPP material for inclusion in Revision 2 of Rec. M.2150 (IMT-2020) is due in December (RAN#98).

Document 2162 provides a list of actions to be completed for the submission. The document also proposes to task ITU-R Ad-Hoc to finalize the material to be submitted to ITU-R. The document is a draft LS to SA, PCG and OP to inform them of the action plan.

**Proposal 1:** it is proposed to endorse 2162 and to task ITU-R Ad-Hoc to finalize the submission to ITU-R. A new document number will be requested to submit the approved version to SA, PCG and OP.

Document 2314 is a company input providing a first proposal for the finalization of the material to be submitted to ITU-R. Since the finalization is planned in December, it is proposed to note the document.

**Proposal 2:** note 2314

Companies are encouraged to provide feedbacks on the moderator's proposals

### Feedback Form 5:

#### 1 – Ericsson LM

##### On Proposal 1:

For both proposal 2 and proposal 3 we need to add a subbullet about updating the characteristic template for each of the submissions, wherein is suitable. The main reason is that the compliance template links to the characteristic template in terms of which bands are supports and supported frequency ranges. This information we need to provide an to ITU. In the IMT-Adv submission this is written differently wherein the band information is directly writing in the compliance template and hence for IMT-Adv it is sufficient to update the compliance template in this respect, which is then not the case for IMT-2020. Hence the slightly different handling here between the IMT-Adv and IMT-2020. Your invited to take a look at 2314 and specifically the characteristic templates (question 5.2.3.2.8.3) for the detailed update on the main parts related to frequency bands. There are additional places that is good to update as well so the updates suggested are not limited to this question only, but if you want to take a quick look this is the one place to check.

We proposed the following updates (updates showed in underline):

##### **Proposal 2: task ITU-R Ad-hoc to provide a draft LTI (Letter To ITU) by TSGs#98 on the 3GPP 5G-SRIT update, containing:**

- Revised Annex 1 of Rec. ITU-R M.2150-1 (sections 1.1 and 1.2 and their subsections, as appropriate)
- Compliance templates 5.2.4 from Report ITU-R M.2411-0 (2017) – as per M.2012, for the compliance template for technical performance it is proposed to indicate the fulfilment of the requirements without specifying any value (they were indicated in the original submission) and adding as clarifying note: “Improves on the technology originally being submitted in IMT-2020/13 and therefore the conclusions expressed in ITU-R Report M.2483 sect. 5.2.1 remains valid”
- Revised characteristic template as appropriate
- Reminder for OPs 3GPP OPs to send to ITU-R WP5D the Certification B duly signed by January 24th, 2023

##### **Proposal 3: task ITU-R Ad-hoc to provide a draft LTI (Letter To ITU) by TSGs#98 on the 3GPP 5G-RIT update, containing:**

- Revised Annex 2 of Rec. ITU-R M.2150-1 (sections 2.1 and 2.2 and their subsections, as appropriate)

- Compliance templates 5.2.4 from Report ITU-R M.2411-0 (2017) – as per M.2012, for the compliance template for technical performance it is proposed to indicate the fulfilment of the requirements without specifying any value (they were indicated in the original submission) and adding as clarifying note: “Improves on the technology originally being submitted in IMT-2020/14 and therefore the conclusions expressed in ITU-R Report M.2483 sect. 5.2.2 remains valid”

- Revised characteristic template as appropriate

- Reminder for OPs 3GPP OPs to send to ITU-R WP5D the Certification B duly signed by January 24th, 2023

On another topic

We noted also that the contact details for the Sr. Director at ATIS is not correct in the applicable attachment, but we presume ATIS handles this when providing the sign certificate.

## **2 – Qualcomm Incorporated**

QC agrees with the proposals from ERI, and thinks the suggestions should apply to the IMT-A doc as well (2358)

## **3 – Ericsson LM**

This is a response just to QC comment. This is the first time now the 3GPP updates/revise the submission of IMT-2020. The documents related to that look a bit different as compared to IMT-Adv. Hence the proposal above from outside, which we still propose. For IMT-Adv our understanding is that in the past 3GPP has not updated the characteristic template and we from outside do not see the need to do this now either. Maybe it is good to highlight what updates are needed in some form (in case we have missed something from outside for IMT-Adv characteristic template)? The doc 2538 contains the previous update from 3GPP I believe as one of the attachments which was reflected in <https://www.itu.int/md/R19-WP5D-C-0577/en>, if it would help to see what was done in the past for IMT-Adv. Note that the IMT-Adv and the IMT-2020 does not need to be handled in the same way in accordance with what we wrote above.

## **4 – Ericsson LM**

This is a response just to QC comment. This is the first time now the 3GPP updates/revise the submission of IMT-2020. The documents related to that look a bit different as compared to IMT-Adv. Hence the proposal above from outside, which we still propose. For IMT-Adv our understanding is that in the past 3GPP has not updated the characteristic template and we from outside do not see the need to do this now either. Maybe it is good to highlight what updates are needed in some form (in case we have missed something from outside for IMT-Adv characteristic template)? The doc 2538 contains the previous update from 3GPP I believe as one of the attachments which was reflected in <https://www.itu.int/md/R19-WP5D-C-0577/en>, if it would help to see what was done in the past for IMT-Adv. Note that the IMT-Adv and the IMT-2020 does not need to be handled in the same way in accordance with what we wrote above.

## **5 – Huawei Tech.(UK) Co., Ltd**

Huawei agrees with the proposal in 2162 (including the timeline for updating M.2050 with Rel-17 based on Dec 2022 specs).

We are also open to attaching an updated overall characteristics template as proposed by Ericsson, or to attach an updated list of IMT bands as proposed in 2162, if either approach works from ITU-R perspective.

Agree to note 2314. Some initial feedback on 2314: the updated list of relevant new specifications seems to be missing (cf the new specifications proposed to be included as shown in 2162).

## 6 – TELECOM ITALIA S.p.A.

After some checking with the previous submissions, we believe it is not necessary to submit the characteristics template.

What is required is to list the bands supported and highlight the new bands. This can be done (as it was done for IMT-Advanced) by adding to the compliance template a table with the supported band and by highlighting the new bands with revision marks.

Therefore we suggest to agree on the moderator's proposal as is

## 1.2 Summary of Initial round

The table below summarizes the outcome of the initial round

Since the table is not fully visible in pdf format, below a short summary is provided (followed by the full table):

- RP-221905: **Conclusion:** noted - answer to WP5D based on RP-221915
- RP-221906: **Conclusion:** noted
- RP-221912: **Conclusion:** noted - answer to WP5D based on RP-222313
- RP-221915: The majority of companies is fine with the revision proposed by Qualcomm (plus Xiaomi and Ericsson comments). ZTE proposes to keep the original version. **Moderator's recommendation 1:** endorse the revision of 1915 as proposed by Qualcomm plus the comments from Xiaomi and Ericsson
- RP-221916: **Conclusion:** noted - answer to WP5D based on RP-222313
- RP-222161: Replaced by RP-222538
- RP-222162: There was some discussion on how to make explicit the new bands introduced in Rel. 17. At the end there is agreement to adopt the method of IMT-Advanced (i.e., adding the table in the compliance template, with revision marks to indicate new bands). **Conclusion:** RAN can endorse RP-222162. No need to further discuss the topic. An LS with source RAN will be uploaded in the inbox
- RP-222313: There is general consensus to endorse the answer to ITU in 2313. However, the moderator realized after the end of the initial round that the document addresses only the 3GPP 5G RIT, while the SRIT is not addressed. **Moderator's recommendation 2:** continue the discussion on how to capture the aspects relevant to 3GPP 5G SRIT. The part relevant to 3GPP 5G RIT can be considered endorsed
- RP-222314: **Conclusion:** noted
- RP-222315: **Conclusion:** noted
- RP-222538: There is general consensus to endorse the answer to ITU in 2538 with the corrections indicated by Ericsson. **Conclusion:** the document is endorsed with the corrections indicated by Ericsson. No need to further discuss the topic. An LS with source RAN will be uploaded in the inbox

Tdoc	Title
RP-221905	LS on Development of a draft new Report ITU-R M.[IMT.MULTIMEDIA] - Capabilities of the terrestrial c
RP-221906	LS on Invitation to update the information in the IMT-2020 and beyond roadmap (JCA-IMT2020-LS11; to:
RP-221912	Draft reply LS to ITU-R WP5D/TEMP/482(Rev.1) = RP-212699 on work towards two new recommendatio
RP-221915	DRAFT LTI in reply to ITU-R WP5D/TEMP/658(Rev.2) = RP-221905 on Development of a draft new Rep
RP-221916	Draft reply LS to ITU-R WP5D/TEMP/482(Rev.1) = RP-212699 on work towards two new recommendatio
RP-222161	Draft LS on 3GPP submission process towards M.2012-6 (IMT-Advanced)
RP-222162	Draft LS on 3GPP submission process towards M.2012-6 (IMT-Advanced)
RP-222313	Draft reply LS to ITU-R WP5D/TEMP/482(Rev.1) = RP-212699 on work towards two new recommendatio
RP-222314	On inclusion of Rel-17 in M.2150
RP-222315	On inclusion of Rel-17 in M.2012
RP-222538	Draft LS on 3GPP submission process towards M.2012-6 (IMT-Advanced)

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## 2 Final round

As indicated, the plan is to finalize the documents by Wednesday 14th 11:00 UTC to allow submission to SA#97e.

The following proposals are open for discussion

**Moderator’s recommendation 1:** endorse the revision of 1915 as proposed by Qualcomm plus the comments from Xiaomi and Ericsson

**Moderator’s recommendation 2:** continue the discussion on 2313 on how to capture the aspects relevant to 3GPP 5G SRIT. The part relevant to 3GPP 5G RIT can be considered endorsed - **see below the text proposal 1**

[extract from 2313]

...

This LS gives a response for 3GPP 5G-RIT concerning Generic unwanted emission characteristics of base stations and user equipment using the terrestrial radio interfaces of IMT-2020 including information on the requirement reference point (e.g. power at antenna connector or TRP). [beginning of new text] the Generic unwanted emission characteristics for the 3GPP 5G-SRIT are to be derived from Recommendations ITU-R M.1580 and from the file “Annex UE unwanted emissions for IMT-2020 for the LTE component, while the attachments to this document provide the characteristics for the NR component. [end of new text]

...

### 2.1 Discussion

**Question 1:** can we agree on the conclusions indicated in table 2?

**Feedback Form 6:**

<b>1 – Ericsson LM</b> Yes
<b>2 – Beijing Xiaomi Mobile Software</b> Yes
<b>3 – Huawei Tech.(UK) Co.. Ltd</b> Yes

**Question 2:** can we agree on the moderator's recommendations 1 and 2?

**Feedback Form 7:**

<b>1 – Ericsson LM</b> Yes
<b>2 – ZTE Corporation</b> <p>If most of the companies are fine with the recommendation 1, we can be flexible and okay with it but we have one clarification question. Regarding the "promise" on "3GPP plans to review in detail the WP5D draft new Report, including potential gaps with regard to 3GPP relevant features (from Rel-16 onward)", I would like to ask how 3GPP will plan to identify "potential gaps" provided that the relevant features are related to different TSGs/WGs. Do we expect individual companies will do the review and bring in contributions to this ITU-R Adhoc for discussion in RAN#98e? Perhaps the moderator or Qualcomm colleague (who added this) can provide clarification on this. Thanks!</p>
<b>3 – TELECOM ITALIA S.p.A.</b> <p>To ZTE: thanks for your question. I leave to Qualcomm to further elaborate. In my understanding, this document is a preliminary answer. The plan is to finalize the contribution to ITU in case they submit a new version of the document after they October meeting. Companies are welcome to contribute in the ITU-R Ad-Hoc to finalise the 3GPP answer at RAN#98</p>
<b>4 – Beijing Xiaomi Mobile Software</b> Yes
<b>5 – Huawei Tech.(UK) Co.. Ltd</b> Yes
<b>6 – Huawei Tech.(UK) Co.. Ltd</b> Yes

**Question 3:** can we agree on the following text proposal to 2313?

This LS gives a response for 3GPP 5G-RIT concerning Generic unwanted emission characteristics of base stations and user equipment using the terrestrial radio interfaces of IMT-2020 including information on the requirement reference point (e.g. power at antenna connector or TRP). [beginning of new text] the Generic unwanted emission characteristics for the 3GPP 5G-SRIT are to be derived from Recommendations ITU-R M.1580 and from the file “Annex UE unwanted emissions for IMT-2020 for the LTE component, while the attachments to this document provide the characteristics for the NR component. [end of new text]

**Feedback Form 8:**

<p><b>1 – Ericsson LM</b></p> <p>Yes</p>
<p><b>2 – Ericsson LM</b></p> <p>After some additional thinking should we perhaps refer to M.2070 and M.2071 (the generic unwanted emissions recommendations for LTE) , rather than M.1580.</p>
<p><b>3 – Huawei Tech.(UK) Co.. Ltd</b></p> <p>yes, with the correction from Ericsson.</p>
<p><b>4 – TELECOM ITALIA S.p.A.</b></p> <p>as Telecom Italia: yes, with the correction by Ericsson</p>

**2.2 Summary of final round**

There was agreement on approving the conclusions from the initial round:

There was agreement on moderator’s proposals 1 and 2

There was agreement on revision of document 2313, with the following modification:

...

This document (and its attachments) gives a response concerning Generic unwanted emission characteristics of base stations and user equipment using the terrestrial radio interfaces of IMT-2020, applicable to the 3GPP 5G-RIT (or the NR component of the 3GPP 5G SRIT). The document includes information on the requirement reference point (e.g. power at antenna connector or TRP).

NOTE: for the LTE component of the 3GPP 5G-SRIT, generic unwanted emission characteristics should be derived from Recommendations ITU-R M.2070 and from the file “Annex UE unwanted emissions for IMT-2020” (see attachment).

...

Therefore there is no need to continue the discussion and the relevant documents have been uploaded in the inbox (see Section 3 below).

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## 3 Conclusions

The moderator would like to thank the contributing companies for the fruitful discussion.

Below the list of document treated in this discussion and the conclusions. The RAN chair is asked to declare closed this discussion and to approve the relevant documents endorsed by this discussion.

### 3.1 IMT.MULTIMEDIA

The LS in from WP5D in RP-221905 is replied to in RP-221923.

The draft answer provided in RP-221915 is noted (reused for LSout RP-221923). Document 1923 is agreed by this discussion and the moderator asks RAN chair to declare the document agreed by RAN

### 3.2 IMT-2020 and beyond roadmap

Document RP-221906 is noted with no action from RAN

### 3.3 Generic unwanted emission characteristics of base stations/mobile stations using the terrestrial radio interfaces of IMT-2020

RP-221912 and RP-221916 are noted

The draft answer provided in RP-222313 is revised in RP-222614. Document 2614 is agreed by this discussion and the moderator asks RAN chair to declare the document agreed by RAN

### 3.4 IMT-Advanced

RP-222315 is noted with no further action in RAN

RP-222161 is replaced by RP-222538. The draft answer provided in RP-222538 is revised in RP-222615. Document 2615 is agreed by this discussion and the moderator asks RAN chair to declare the document approved by RAN

### 3.5 IMT-2020

RP-222314 is noted with no further action in RAN

The draft answer provided in RP-222162 is revised in RP-222613. Document 2613 is agreed by this discussion and the moderator asks RAN chair to declare the document approved by RAN

