**3GPP TSG-RAN WG4 Meeting #100-e *R4-2115647***

**Electronic Meeting, 16 – 27 August, 2021**

**Title: LS on Revision of Recommendations ITU-R M.2070 and ITU-R M.2071 on Unwanted Emissions of IMT-Advanced**

**Response to: LS RP-210747 on Revision of Recommendations ITU-R M.2070 and ITU-R M.2071 on Unwanted Emissions of IMT-Advanced from ITU-R Working Party 5D**

**Release: -**

**Work Item: -**

**Source: RAN WG4**

**To: TSG RAN**

**Cc: -**

**Contact person: Johan Sköld**



**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments: -**

# 1 Overall description

In the LS from ITU-R WP5D in RP-210747, the group *“kindly invite the GCS Proponents of IMT-Advanced for Revision 5 of Recommendation ITU-R M.2012, to provide relevant materials for Recommendations ITU R M.2070 and ITU-R M.2071, consistent with the Revision 5 of Recommendation ITU-R M.2012. The Revision 5 of Recommendation ITU-R M.2012 is planned for completion by WP 5D in October 2021.”* TSG RAN has tasked RAN4 and RAN5 to respond on the updates.

ITU-R Recommendation M.2070 is based on information from 3GPP TS 36.141 for E-UTRA BS and TS 37.141 for MSR BS. The existing revision 1 of ITU R M.2070 is aligned with ITU-R M.2012-2 and based on TS 36.141/37.141 v12.6.0 (2014-12). The updated unwanted emissions recommendations should according to the LS be aligned with the coming revision 5 of M.2012, which will be based on the 2021-06 (Rel-16) version of 3GPP specifications (16.10.0 for the respective BS specs). The update thus covers changes over four 3GPP releases, which presents a major challenge. The following substantial changes need to be covered:

* Addition of NB-IoT support. This has major impact in particular on operating band unwanted emissions, with 7 new tables added for LTE BS, and 17 new tables added for MSR BS. Existing tables also have major updates.
* Addition of NR support for MSR BS. While NR is not a part of IMT-Advanced, it is an inseparable part of the MSR BS requirements (as are GSM/EDGE and UTRA).
* Addition of 24 new operating bands for LTE BS and 16 new operating bands for MSR BS, with related requirements for protection of other services and co-existence.

It should be noted that all updates mentioned above will already be completely covered by the specifications referred to in the URL references in the coming revision 5 of ITU-R M.2012. Copying the information into a separate recommendation update is for this reason duplication of information.

Overall, it has not been possible to finalize a complete update of Annex 1 of M.2070 in time for submission to TSG RAN#93-e. It is the view of RAN4 that a complete update can be produced in time for TSG RAN#94-e.

# 2 Actions

**To TSG RAN**

**ACTION:** RAN WG4 asks TSG RAN to take the above information for ITU-R M.2070 into account when drafting the LS response to ITU‑R WP5D.

# 3 Dates of next TSG RAN WG4 meetings

TSG-RAN4 Meeting #101-e November 01 – 12, 2021 Online