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Radiocommunication Bureau (BR)

Administrative Circular
CACE/1083

13 October 2023

To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates participating in the work of Radiocommunication Study Group 5 and ITU Academia

Subject: **Radiocommunication Study Group 5 (Terrestrial Services)**

- **Proposed approval of 3 draft new and 10 draft revised ITU-R Recommendations**
- **Proposed suppression of 1 ITU-R Recommendation**

At the meeting of Radiocommunication Study Group 5 held from 25 to 26 September 2023, the Study Group adopted the texts of 3 draft new and 10 draft revised ITU-R Recommendations and agreed to apply the procedure of Resolution ITU-R 1-8 (see § A2.6.2.3) for approval of Recommendations by consultation. The titles and summaries of the draft Recommendations are given in Annex 1. Any Member State raising an objection to the approval of a draft Recommendation is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

Furthermore, the Study Group proposed the suppression of 1 Recommendation listed in Annex 2. Any Member State who objects to the suppression of a draft Recommendation is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

Having regard to the provisions of § A2.6.2.3 of Resolution ITU-R 1-8, Member States are requested to inform the Secretariat (brsgd@itu.int) by 13 December 2023, whether they approve or do not approve the proposals above.

After the above-mentioned deadline, the results of this consultation will be announced in an Administrative Circular and the approved Recommendations will be published as soon as practicable (see http://www.itu.int/pub/R-REC).

Any ITU member organization aware of a patent held by itself or others which may fully or partly cover elements of the draft Recommendations mentioned in this letter is requested to disclose such information to the Secretariat as soon as possible. The Common Patent Policy for ITU-T/ITU-R/ISO/IEC is available at http://www.itu.int/en/ITU-T/ipr/Pages/policy.aspx.

Mario Maniewicz
Director

Annexes: 2

– Titles and summaries of the draft Recommendations

– Proposed suppression of an ITU-R Recommendation

Documents: Documents 5/131(Rev.1), 5/124, 5/126(Rev.1), 5/128(Rev.1), 5/132, 5/133, 5/134, 5/135, 5/136(Rev.1), 5/137, 5/152, 5/155(Rev.1), 5/158, 5/138

These documents are available in electronic format at:
https://www.itu.int/md/R19-SG05-C/en

Annex 1

Titles and summaries of the draft Recommendations adopted by Radiocommunication Study Group 5

Draft new Recommendation
ITU-R M.[IMT.FRAMEWORK FOR 2030 AND BEYOND] Doc. 5/131(Rev.1)

Framework and overall objectives of the future development of IMT for 2030 and beyond

This Recommendation describes a framework and overall objectives for the development of the terrestrial component of International Mobile Telecommunications (IMT) for 2030 and beyond (IMT-2030). IMT is expected to continue to better serve the needs of the networked society, for both developed and developing countries in the future.

In this Recommendation, the framework of the development of IMT-2030, including a broad variety of capabilities associated with envisaged usage scenarios, is described. Furthermore, this Recommendation addresses the objectives for the development of IMT-2030, which includes further enhancement and evolution of existing IMT. Aspects of interworking with other networks are also addressed.

Draft revision of Recommendation ITU-R F.1568-1 Doc. 5/124

Radio-frequency block arrangements for fixed wireless access systems in the range 10.15-10.3/10.5-10.65 GHz

The revision contains the consequential change to considering part and recognizing part in the light of the current version of Recommendation ITU-R F.746 and the latest version of RR, respectively. This revision also conforms with the mandatory format for ITU-R Recommendations.

Draft revision of Recommendation ITU-R F.746-10 Doc. 5/126(Rev.1)

Radio-frequency arrangements for fixed service systems

This Recommendation provides general guidelines for developing radio-frequency arrangements for fixed wireless systems. It also presents a summary of all the current radio-frequency arrangements contained in various Recommendations and provides in various Annexes specific radio-frequency channel arrangements not covered in the scope of other specific Recommendations.

Draft revision of Recommendation ITU-R M.2121-0 Doc. 5/128(Rev.1)

Harmonization of frequency bands for Intelligent Transport Systems in the mobile service

The following revisions were made:

– In *noting h)*, revised portions of the text.

– In the Annex, added a frequency band used in Brazil and revised the frequency bands used in Canada and the United States.

Draft revision of Recommendation ITU-R M.2150-1 Doc. 5/132

Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2020 (IMT-2020)

This modification of Recommendation ITU-R M.2150 is intended to keep the specified technologies of the terrestrial component of IMT-2020 up to date. The main changes include the addition of enhanced capabilities for 3GPP 5G-SRIT (Set of Radio Interface Technologies), 3GPP 5G-RIT (Radio Interface Technology), DECT 5G-SRIT, and some consequential changes to the overview sections of the text, as well as to the Global Core Specifications. Also, the transposition references have been updated in Annexes 1, 2 and 4. 5Gi RIT has no update and Annex 3 remains the same as previous revision.

Draft revision of Recommendation ITU-R M.2012-5 Doc. 5/133

Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced)

This modification of Recommendation ITU-R M.2012 is intended to keep the specified technologies of the terrestrial component of IMT-Advanced up to date. The main changes include the addition of enhanced capabilities for LTE-Advanced SRIT (Set of Radio Interface Technologies), and some consequential changes to the overview sections of the text, as well as to the Global Core Specifications. Also, the transposition references have been updated in Annex 1. WirelessMAN-Advanced RIT (Radio Interface Technology) has no update and Annex 2 remains the same as previous Revision.

Draft revision of Recommendation ITU-R M.1036-6 Doc. 5/134

Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications in the bands identified for IMT in the Radio Regulations

This revision provides frequency arrangements for the bands identified at WRC-19 for the implementation of the terrestrial component of IMT systems and strictly consequential updates to align the text with the decisions adopted at WRC-19 in Article **5** of the RR and related Resolutions, as well as reflect one newly approved document. The revision also adds one frequency arrangement in section 3 of the Annex based on inputs from administrations.

Draft new Recommendation ITU-R M.[FSS_ES_IMT_26/42/47GHZ] Doc. 5/135

Guidelines to assist administrations to mitigate in-band interference from FSS earth stations operating in the frequency bands 24.65-25.25 GHz, 27-27.5 GHz, 42.5-43.5 GHz and 47.2-48.2 GHz into IMT stations

The purpose of this document is to describe guidelines to assist administrations to mitigate in-band interference from FSS earth stations into International Mobile Telecommunications (IMT) stations. The frequency bands 24.65-25.25 GHz in ITU Regions 1 and 3, 24.75-25.25 GHz in ITU Region 2, and 27-27.5 GHz in ITU Regions 2 and 3 are allocated to the Fixed-Satellite Service (FSS) (Earth-to-space) on a primary basis. The frequency bands 42.5-43.5 GHz and 47.2-48.2 GHz are allocated to the Fixed-Satellite Service (FSS) (Earth to-space) on a primary basis in the three ITU Regions. The frequency bands 24.65-25.25 GHz, 27-27.5 GHz and 42.5-43.5 GHz are identified for use by administrations wishing to implement the terrestrial component of IMT in the three ITU regions. The frequency band 47.2-48.2 GHz is identified for use by administrations wishing to implement the terrestrial component of IMT in ITU Region 2 and some countries in ITU Regions 1 and 3.

Draft revision of Recommendation ITU-R M.2070-1 Doc. 5/136(Rev.1)

Unwanted emission characteristics of base stations using the terrestrial radio interfaces of IMT-Advanced

This revision provides an update with the latest developments of IMT-Advanced received from standardization bodies. The band tables for LTE-Advanced has been split into frequencies that are identified for IMT in the RR and frequencies that are not identified for IMT in the RR. The scope, *considerings*, *notings*, *recognizings* and *recommends* have been revised and rearranged.

Draft revision of Recommendation ITU-R M.2071-1 Doc. 5/137

Unwanted emission characteristics of mobile stations using the terrestrial radio interfaces of IMT-Advanced

This revision provides an update with the latest developments of IMT-Advanced received from standardization bodies. The band table for LTE-Advanced has been split into frequencies that are identified for IMT in the RR and frequencies that are not identified for IMT in the RR. The scope, *considerings*, *notings*, *recognizings* and *recommends* have been revised and rearranged.

Draft new Recommendation ITU-R M.[RAD 92-100 GHz] Doc. 5/152

Technical and operational characteristics of radiolocation systems operating in the frequency range 92-100 GHz and radionavigation systems operating in the frequency range 95-100 GHz

This Recommendation contains the technical and operational characteristics of the radiolocation and radionavigation systems operating in the frequency range 92-100 GHz. The parameters are intended to be used as a guideline in analysing compatibility between radars operating in the radiolocation service or in the radionavigation service with systems in other services.

Draft revision of Recommendation ITU-R M.493-15 Doc. 5/155(Rev.1)

Digital selective-calling system for use in the maritime mobile service

For the alignment of the modifications carried out by the International Maritime Organization (IMO) for the revision of SOLAS Chapter IV this update of the Recommendation contains:

- Due to the removal of the VHF digital selective calling (DSC) EPIRB from SOLAS IV the related calls and all references for this item are deleted from this Recommendation.
- Update and complements the technical characteristic of DSC for the introduction of the automatic connection system (ACS).
- As narrow-band direct-printing (NBDP) for MF and HF for distress alerting, distress-relay, urgency and safety calls and the related acknowledgments including all calls are removed from Tables A1-4.1 to Table A1-4.7 to follow the revised SOLAS IV in this Recommendation.
- As Maritime Safety Information (MSI) on HF is retained in the revised SOLAS Chapter IV for the automatic reception of MSI on HF the reception capability of NBDP using forward error correction (FEC) for Areas is established.

The Reference to Recommendation ITU-R M.476 is removed as such equipment has not been installed since 2005. In course of the evolution of Recommendation ITU-R M.2135 the general description of DSC Class M devices and their operational functionalities are now presented in Recommendation ITU-R M.2135 where the description of the specific DSC functionality is described in this Recommendation.

In reflection of the necessary modifications *recommend* 3 has been updated and *recommend* 4 deleted and the Abbreviations and Glossary are updated.

Draft new Recommendation ITU-R M.1851-1 Doc. 5/158

Mathematical models for radiodetermination radar systems antenna patterns for use in interference analyses

– Extension of the scope of the Recommendation to aeronautical mobile systems.
– Update of the *recommends*.
– Updates and clarifications on the cosecant-squared pattern.
– New model for rectangular aperture antennas on a pedestal.
– New model for circular aperture antennas.
– Update of the methodology to produce 3-D antenna patterns from principle cuts.
– New measurement of a cosecant-squared antenna.

Annex 2

Proposed suppression of ITU-R Recommendation

(Source: Document 5/138)

Recommendation ITU-R	Title
M.1075	Leaky feeder systems in the land mobile services

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