INTERNATIONAL TELECOMMUNICATION UNION



Radiocommunication Bureau (Direct Fax N°. +41 22 730 57 85)

> Administrative Circular CAR/329

15 December 2011

To Administrations of Member States of the ITU

Subject: Radiocommunication Study Group 5 (Terrestrial services)

 Proposed adoption of 9 draft new Recommendations and 18 draft revised Recommendations and their simultaneous approval by correspondence in accordance with § 10.3 of Resolution ITU-R 1-5 (Procedure for the simultaneous adoption and approval by correspondence)

At the meeting of Radiocommunication Study Group 5, held from 21 to 23 November 2011, the Study Group decided to seek adoption of 9 draft new Recommendations and 18 draft revised Recommendations by correspondence (§ 10.2.3 of Resolution ITU-R 1-5) and further decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA), (§ 10.3 of Resolution ITU-R 1-5). The titles and summaries of the draft Recommendations are given in the Annex.

The consideration period shall extend for 3 months ending on <u>15 March 2012</u>. If within this period no objections are received from Member States, the draft Recommendations shall be considered to be adopted by Study Group 5. Furthermore, since the PSAA procedure has been followed, the draft Recommendations shall also be considered as approved. However, if any objection is received from a Member State during the consideration period, the procedures given in § 10.2.1.2 of Resolution ITU-R 1-5 shall apply.

After the above-mentioned deadline, the results of the PSAA procedure shall be announced in an Administrative Circular (CACE) and the approved Recommendations published as soon as practicable.

Any ITU member organization aware of a patent held by itself or others which may fully or partly cover elements of the draft Recommendation(s) 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/ITU-T/dbase/patent/patent-policy.html.

François Rancy Director, Radiocommunication Bureau

Annex: Titles and summaries of the draft Recommendations

Documents attached: Documents 5/261(Rev.1), 5/274(Rev.2), 5/294(Rev.1), 5/297(Rev.1), 5/298(Rev.1), 5/306(Rev.1), 5/307(Rev.1), 5/311(Rev.1), 5/312(Rev.1), 5/313(Rev.1), 5/315(Rev.1), 5/316(Rev.1), 5/317(Rev.1), 5/320(Rev.1), 5/324(Rev.1), 5/325(Rev.1), 5/329(Rev.1), 5/333(Rev.1), 5/342(Rev.1), 5/343(Rev.1), 5/346(Rev.1), 5/347(Rev.1), 5/348(Rev.1), 5/349(Rev.1), 5/352(Rev.1), 5/353(Rev.1) and 5/354(Rev.1) on CD-ROM

Distribution:

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

Annex

Titles and summaries of the draft Recommendations

Draft new Recommendation ITU-R M.[LMS.WASN]

Objectives, characteristics and functional requirements of wide-area sensor and/or actuator network (WASN) systems

This Recommendation provides the objectives, system characteristics, functional requirements, service applications and fundamental network functionalities for mobile wireless access systems providing communications to a large number of ubiquitous sensors and/or actuators scattered over wide areas in the land mobile service. The key objective of WASN systems is to support machine-to-machine service applications irrespective of machine location.

Draft new Recommendation ITU-R M.[LMS.MGWS1]

Multiple gigabit wireless systems in frequencies around 60 GHz

This Recommendation provides general characteristics and radio interface standards for multiple gigabit wireless systems in frequencies around 60 GHz.

Draft new Recommendation ITU-R F.[92-95 GHz]

Radio-frequency channel arrangements for fixed service systems operating in the 92-95 GHz range

This Recommendation describes channel arrangements in the portions of the frequency range 92.0-95.0 GHz allocated to the fixed service. The arrangements are based on a homogeneous pattern of 50 MHz slots and are proposed for either FDD or TDD applications.

Draft new Recommendation ITU-R F.[42 GHz]

Doc. 5/311(Rev.1)

Radio-frequency channel and block arrangements for fixed wireless systems operating in the 42 GHz (40.5 to 43.5 GHz) band

This Recommendation provides radio-frequency channel arrangements for point-to-point (P-P) fixed wireless systems operating in the 42 GHz (40.5 to 43.5 GHz) band, which may be used for high, medium and low capacity systems. The preferred radio-frequency channel arrangements are based on multiples of basic channels of 7 MHz width merged to form higher channel widths up to 112 MHz. Additional option for block arrangement suitable for deployment of a variety of fixed wireless access (FWA) systems using multipoint technology as well as PP links for infrastructure and access purpose. Third option for a flexible mixed use of the above deployment methodology is also described.

Doc. 5/261(Rev.1)

Doc. 5/298(Rev.1)

Doc. 5/307(Rev.1)

Radio-frequency channel and block arrangements for fixed wireless systems operating in the 71-76 and 81-86 GHz bands

This Recommendation provides radio-frequency channel and block arrangements for fixed wireless systems (FWS) operating in the 71-76/81-86 GHz range, which may be used for broadband applications and other high-speed networks. The preferred arrangements are based on common homogeneous pattern with elementary slots of 125 MHz. The preferred radio-frequency block arrangements are based on 5 GHz sub-band or block possibly subdivided to form smaller blocks. The preferred channel arrangement provides flexible identification of channel sizes from 250 MHz to 4 500 MHz and duplex frequency either of 2.5 GHz (single sub-band, 71-76 GHz or 81-86 GHz, arrangement) or 10 GHz (joint sub-bands, 71-76 GHz and 81-86 GHz together, arrangements).

Draft new Recommendation ITU-R M.[5 150-5 250 MHz ARNS RADARS] Doc. 5/317(Rev.1)

Characteristics of and protection criteria for radars operating in the aeronautical radionavigation service (ARNS) in the frequency band 5 150-5 250 MHz

This Recommendation specifies the characteristics of and protection criteria for radar operating in the aeronautical radionavigation service in the frequency band 5 150-5 250 MHz. The technical and operational characteristics should be used when analysing compatibility between radars operating in the aeronautical radionavigation service with systems in other services.

Draft new of Recommendation ITU-R M.[13.25 to 13.4 GHz ARNS RADARS] Doc. 5/320(Rev.1)

Characteristics and protection criteria for radars operating in the aeronautical radionavigation service in the frequency band 13.25-13.40 GHz

This Recommendation specifies the characteristics and protection criteria of radars operating in the aeronautical radionavigation service (ARNS) in the frequency band 13.25-13.4 GHz. The technical and operational characteristics should be used in analysing compatibility between radars operating in the aeronautical radionavigation service and systems in other services within this frequency band.

Draft new of Recommendation ITU-R M.[LMS.PPDR.UHF TECH]

Radio interface standards for use by public protection and disaster relief operations in some parts of the UHF band in accordance with Resolution 646 (WRC-03)

This Recommendation identifies radio interface standards applicable for public protection and disaster relief (PPDR) operations in some parts of the UHF band. The broadband standards included in this Recommendation are capable of supporting users at broadband data rates, taking into account the ITU-R definitions of "wireless access" and "broadband wireless access" found in Recommendation ITU-R F.1399.

This Recommendation addresses the standards themselves and does not deal with the frequency arrangements for PPDR systems, for which a separate Recommendation exists: draft new Recommendation ITU-R M.[LMS.PPDR.UHF] (Doc. 5/201).

Draft new of Recommendation ITU-R M.[500 kHz]

Characteristics of a digital system, named Navigational Data for broadcasting maritime safety and security related information from shore-to-ship in the 500 kHz band

This Recommendation describes an MF radio system, named Navigational Data (NAVDAT), for use in the maritime mobile service, operating in the 500 kHz band for digital broadcasting of maritime safety and security related information from shore-to-ship. The operational characteristics and system architecture of this radio system are included in Annexes 1 and 2. The two different modes of broadcasting data are detailed in Annexes 3 and 4.

Draft revision of Recommendation ITU-R M.1036-3

Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications-2000 (IMT-2000) in the bands 806-960 MHz, 1 710-2 025 MHz, 2 110-2 200 MHz and 2 500-2 690 MHz

This revision includes additional frequency arrangements to reflect the results of WRC-07. It also reorganizes the frequency arrangements into self-contained sections for clarity, with the generic aspects remaining in the main body of the Recommendation. The structure of the document has been revised.

Draft revision of Recommendation ITU-R M.1732

Characteristics of systems operating in the amateur and amateur-satellite services for use in sharing studies

This revision expands the upper frequency limit of the existing characteristics from 47 to 81.5 GHz.

Doc. 5/333(Rev.1)

Doc. 5/274(Rev.2)

Doc. 5/329(Rev.1)

Doc. 5/294(Rev.1)

Draft revision of Recommendation ITU-R M.1073-2

Digital cellular land mobile telecommunication systems

This revision includes updating information on reference links in section 6 and some minor amendments to the existing text.

Draft revision of Recommendation ITU-R F.1495-1

Interference criteria to protect the fixed service from time varying aggregate interference from other radiocommunication services sharing the 17.7-19.3 GHz band on a co-primary basis

This revision is intended for clarification of time basis for the interference evaluation with respect to the apportionment of the availability performance objectives (APO) and error performance objectives (EPO).

Draft revision of Recommendation ITU-R F.1245-1

Mathematical model of average and related radiation patterns for line-of-sight point-to-point radio-relay system antennas for use in certain coordination studies and interference assessment in the frequency range from 1 GHz to about 70 GHz

This revision includes review of polarization advantage in the assessment of interference from systems employing a single circular polarization, and addition of Annex 2 providing background information for this change. The replacement of the term "radio-relay systems" with the term "fixed wireless systems" is also addressed in line with other F-series Recommendations.

Draft revision of Recommendation ITU-R F.746-9

Radio-frequency arrangements for fixed service systems

This revision includes the following:

- clarification of the conventional subdivision of digital FWS into low, medium and high capacity systems as already provided in Recommendation ITU-R F.1101;
- updating of Table 1 with the recently new or revised Recommendations;
- deletion of current Annex 2 because the arrangements in § 1 and § 2 are no longer in use and the arrangement in § 3 has been transferred to the revised Recommendation ITU-R F.747, where it is more appropriate.

Doc. 5/297(Rev.1)

Doc. 5/306(Rev.1)

Doc. 5/312(Rev.1)

Doc. 5/315(Rev.1)

Draft revision of Recommendation ITU-R M.628-4

Technical characteristics for search and rescue radar transponders

This revision reflects updated SOLAS Convention Regulations and IMO Resolutions.

Draft revision of Recommendation ITU-R F.1336-2

Reference radiation patterns of omnidirectional, sectoral and other antennas in point-to-multipoint systems for use in sharing studies in the frequency range from 1 GHz to about 70 GHz

This revision proposes:

- alternative methods for the basic formulas for the side-lobe patterns of sectoral antennas;
- clarifications of the methodologies used for down-tilted antenna patterns of omnidirectional and sectoral antennas, respectively.

These modifications required editorial modifications to the notes, and consequential revisions to Annexes 2, 4 and 5 and the development of new Annexes 7 and 8.

Draft revision of Recommendation ITU-R M.1796

Characteristics of and protection criteria for terrestrial radars operating in the radiodetermination service in the frequency band 8 500-10 500 MHz

In this revision the upper portion of the frequency band has been extended from 10 500-10 680 MHz to accommodate the technical characteristics of the seven new radar systems in Annex 1. Annex 2 contains updated information of meteorological radars protection criteria. Lastly, Tables 1, 2, 3 and 4 have been modified to add a column of units.

Draft revision of Recommendation ITU-R M.1081

Automatic HF facsimile and data system for maritime mobile users

This revision proposes to:

- add a scope;
- update references to the Radio Regulations;
- permits the use of an additional class of emission for maritime mobile telephony channels.

Doc. 5/324(Rev.1)

Doc. 5/325(Rev.1)

Doc. 5/342(Rev.1)

Draft revision of Recommendation ITU-R M.1170

Morse telegraphy procedures in the maritime mobile service

This revision proposes to:

- add the scope;
- update references to the Radio Regulations.

Draft revision of Recommendation ITU-R M.1084-4

Interim solutions for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service

This revision proposes to:

- update the scope;
- update a number of references to external standards documents;
- remove a number of redundant references.

Draft revision of Recommendation ITU-R M.689-2

International maritime VHF radiotelephone system with automatic facilities based on DSC signalling format

This revision proposes to:

- add a scope;
- update a number of references to the Radio Regulations;
- reword two of the *recommends* into the appropriate format.

Draft revision of Recommendation ITU-R M.820

Use of 9-digit identities for narrow-band direct-printing telegraphy in the maritime mobile service

This revision proposes to:

- add a scope;
- update references to CCIR Recommendations to the relevant ITU-R Recommendations;
- reword two of the *recommends* into the appropriate format.

Doc. 5/343(Rev.1)

Doc. 5/348(Rev.1)

Doc. 5/346(Rev.1)

Doc. 5/347(Rev.1)

Draft revision of Recommendation ITU-R M.693

Technical characteristics of VHF emergency position-indicating radio beacons using digital selective calling (DSC VHF EPIRB)

This revision proposes to:

- add a scope;
- update references to the IMO SOLAS Convention;
- update references to relevant ITU-R Recommendations.

Draft revision of Recommendation ITU-R M.625-3

Direct-printing telegraph equipment employing automatic identification in the maritime mobile service

This revision proposes to:

- remove redundant references;
- rephrase the language to reflect the maturity of the equipment;
- include reference to the global maritime distress safety system.

Draft revision of Recommendation ITU-R M.690-1

Technical characteristics of emergency position-indicating radio beacons (EPIRBs) operating on the carrier frequencies of 121.5 MHz and 243 MHz

This revision proposes to include additional technical conditions whereby an upward as well as a downward frequency sweep is permitted.

Draft revision of Recommendation ITU-R M.1173

Technical characteristics of single-sideband transmitters used in the maritime mobile service for radiotelephony in the bands between 1 606.5 kHz (1 605 kHz Region 2) and 4 000 kHz and between 4 000 kHz and 27 500 kHz

This revision proposes to:

- add a scope;
- include IEC and CIRM as international organisations that this Recommendation should be brought to the attention of;
- remove outdated specifications contained in Annex 1 section 6;
- align the wording of the *recommends* to the appropriate format.

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Doc. 5/349(Rev.1)

Doc. 5/353(Rev.1)

Doc. 5/354(Rev.1)

Doc. 5/352(Rev.1)