



## Radiocommunication Bureau (BR)

Administrative Circular  
**CACE/777**

28 July 2016

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

Subject: **Meeting of Radiocommunication Study Group 5 (Terrestrial services),  
Geneva, 21 November 2016**

### 1 Introduction

By means of this Administrative Circular, I wish to announce that a meeting of ITU-R Study Group 5 will take place in Geneva on 21 November 2016.

The Study Group meeting will be held in the ITU Headquarters, Geneva. The opening session will take place at 0930 hours.

Group	Meeting date	Deadline for contributions	Opening session
Study Group 5	21 November 2016	Monday, 14 November 2016 at 1600 hours UTC	Monday, 21 November 2016 at 0930 hours (local time)

### 2 Programme of the meeting

The draft agenda for the meeting of Study Group 5 is contained in Annex 1. The status of texts assigned to Study Group 5 can be found on:

<http://www.itu.int/md/R15-SG05-C-0001/en>

#### 2.1 Adoption of draft Recommendations at the Study Group meeting (§ A2.6.2.2.2 of Resolution ITU-R 1-7)

Three draft revisions and one draft new Recommendation are proposed for adoption by the Study Group at its meeting in accordance with § A2.6.2.2.2 of Resolution ITU-R 1-7.

In accordance with § A2.6.2.2.2.1 of Resolution ITU-R 1-7, the titles and summaries of the draft Recommendations are given in Annex 2.

## **2.2 Adoption of draft Recommendations by a Study Group by correspondence (§ A2.6.2.2.3 of Resolution ITU-R 1-7)**

The procedure described in § A2.6.2.2.3 of Resolution ITU-R 1-7 concerns draft new or revised Recommendations that are not specifically included in the agenda of a Study Group meeting.

In accordance with this procedure, draft new and revised Recommendations prepared during the meetings of Working Parties 5A, 5B, 5C, 5D and Task Group 5/1 held prior to the Study Group meeting will be submitted to the Study Group. After due consideration, the Study Group may decide to seek adoption of these draft Recommendations by correspondence. In such cases, the Study Group shall use the procedure for simultaneous adoption and approval (PSAA) by correspondence of draft Recommendations as described in § A2.6.2.4 of Resolution ITU-R 1-7 (see also § 2.3 below), if there is no objection to this approach by any Member State attending the meeting and if the Recommendation is not incorporated by reference in the Radio Regulations.

In accordance with § A1.3.1.13 of Resolution ITU-R 1-7, Annex 3 to this Circular contains a list of topics to be addressed at the meetings of the Working Parties and Task Group held prior to the Study Group meeting and for which draft Recommendations may be developed.

## **2.3 Decision on approval procedure**

At the meeting, the Study Group shall decide on the eventual procedure to be followed for seeking approval for each draft Recommendation in accordance with § A2.6.2.3 of Resolution ITU-R 1-7, unless the Study Group has decided to use the PSAA procedure as described in § A2.6.2.4 of Resolution ITU-R 1-7 (see § 2.2 above).

## **3 Contributions**

Contributions in response to the work of Study Group 5 are processed according to the provisions laid down in Resolution ITU-R 1-7.

The deadline for reception of contributions not requiring translation\* (including Revisions, Addenda and Corrigenda to contributions) is 7 calendar days (1600 hours UTC) prior to the start of the meeting. **The deadline for reception of contributions for this meeting is specified in the table above.** Contributions received later than this deadline cannot be accepted. Resolution ITU-R 1-7 provides that contributions which are not available to participants at the opening of the meeting cannot be considered.

Participants are requested to submit contributions by electronic mail to:

[rsg5@itu.int](mailto:rsg5@itu.int)

A copy should also be sent to the Chairman and Vice-Chairmen of Study Group 5. The pertinent addresses can be found on:

<http://www.itu.int/go/rsg5/ch>

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\* Where translation is required, contributions should be received at least three months prior to the meeting.

## 4 Documents

Contributions will be posted “as received” within one working day on the webpage established for this purpose:

<http://www.itu.int/md/R15-SG05.AR-C/en>

The official versions will be posted on <http://www.itu.int/md/R15-SG05-C/en> within 3 working days.

In accordance with Resolution 167 (Rev. Busan, 2014), **the Study Group meeting will be completely paperless**. Wireless LAN facilities will be available for use by delegates in the meeting rooms. Printers are available in the cyber café of the 2<sup>nd</sup> basement of the Tower building and on the ground floor and first floor of the Montbrillant building for delegates who wish to print documents. In addition, the Service Desk ([servicedesk@itu.int](mailto:servicedesk@itu.int)) has prepared a limited number of laptops for those who do not have one.

## 5 Remote participation

In order to follow the proceedings of ITU-R meetings remotely an audio webcast of the Study Group Plenary meetings in all languages will be provided through the ITU Internet Broadcasting Service (IBS). Participants do not need to register for the meeting to use the webcast facility, however, an ITU [TIES account](#) is required to access the webcast.

## 6 Participation/Visa requirements/Accommodation

Advance registration for ITU-R events is mandatory and carried out exclusively online through Designated Focal Points (DFPs). Each ITU-R Member has been requested to designate a DFP responsible for the handling of all registration formalities, including visa support requests that should also be submitted by the DFP during the on-line registration process. Individuals wishing to be registered for an ITU-R event should contact directly the DFP for their entity. The list of ITU-R DFPs (TIES protected) as well as detailed information on event registration, visa support requirements, hotel accommodation, etc., can be found at:

[www.itu.int/en/ITU-R/information/events](http://www.itu.int/en/ITU-R/information/events)



François Rancy  
Director

## Annexes: 3

### Distribution:

- Administrations of Member States of the ITU and 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 Academia
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups
- Chairman and Vice-Chairmen of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

## **Annex 1**

### **Draft agenda for the meeting of Radiocommunication Study Group 5**

(Geneva, 21 November 2016)

- 1** Opening of the meeting
- 2** Approval of the agenda
- 3** Appointment of the Rapporteur
- 4** Summary Record of the previous meeting (Document [5/15](#))
- 5** Consideration of the outputs of the Working Parties
  - 5.1** Working Party 5A
  - 5.2** Working Party 5B
  - 5.3** Working Party 5C
  - 5.4** Working Party 5D
  - 5.5** Task Group 5/1
- 6** Consideration of other inputs (if any)
- 7** Liaison with other Study Groups, the CCV and international organizations
- 8** Schedule of meetings
- 9** Any other business

M. FENTON  
Chairman, Radiocommunication Study Group 5

## Annex 2

### **Titles and summaries of the draft Recommendations proposed for adoption at the Study Group 5 meeting**

Draft revision of Recommendation ITU-R M.1457-12

Doc. 5/XX

#### **Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2000 (IMT-2000)**

This modification of Recommendation ITU-R M.1457 is intended to keep the specified technologies of the terrestrial component of IMT-2000 up to date. The main changes include the addition of enhanced capabilities for CDMA DS, CDMA MC, CDMA TDD, TDMA SC and FDMA/TDMA RITs, 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 sections 5.1, 5.2, 5.3, 5.4 and also 5.5. The OFDMA TDD WMAN RIT has no update and section 5.6 remains the same as Revision 12.

It was observed that Revision 12 of Recommendation ITU-R M.1457 had become a very large and complicated document and that the revision process had become somewhat burdensome for the external organizations as well as the BR. As a result, WP 5D considered streamlining the information contained in Recommendation ITU-R M.1457 starting with this revision. This streamlining consists of not carrying forward the old information for previous releases beyond a certain point. The proposed streamlining was liaised to external organizations at the beginning of the Revision 13 update process. Subsequently, an input contribution from GCS Proponents of CDMA DS and CDMA TDD, which was also supported by TDMA SC GCS proponent, proposed to add the text "For information on material from releases prior to Release 8 see Recommendation ITU-R M.1457-12" as note (3) in sections 5.1.2 and 5.3.2 reflect the suppression of the old information. This proposal was agreed in WP 5D and reflected in those sections.

From this update, a new SDO (TSDSI) has been added to the Transposing Organizations for sections 5.1.2 and 5.3.2. (CDMA DS and CDMA TDD) and the Transposing Organization for section 5.4.2 (TDMA SC) becomes ATIS only.

Draft revision of Recommendation ITU-R M.2070-0

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#### **Generic unwanted emission characteristics of base stations using the terrestrial radio interfaces of IMT-Advanced**

This Recommendation provides the generic unwanted emission characteristics (spurious and out-of-band (OoB) emissions) of base stations using the terrestrial radio interfaces of IMT-Advanced.

## **Generic unwanted emission characteristics of mobile stations using the terrestrial radio interfaces of IMT-Advanced**

This Recommendation provides the generic unwanted emission characteristics (spurious and out-of-band (OoB) emissions) of mobile stations using the terrestrial radio interfaces of IMT-Advanced, suitable for establishing the technical basis for global circulation of IMT-Advanced terminals.

## **Modelling and simulation of IMT networks for use in sharing and compatibility studies**

This Recommendation contains the methodology for modelling and simulation of IMT networks for use in sharing and compatibility studies between IMT and other systems and/or applications. As such, it does not make any assumptions on the system parameters or modelling of these other systems and/or applications and is strictly limited to providing information for the IMT systems. Detailed IMT system parameters to be considered in such modelling and their implementation in the simulations are described in sections 3 through 7. Subsequently, the methodology to calculate the aggregate effect of potential interference generated by an IMT system is described in section 8. Furthermore, in order to emphasize the importance of realistically modelling IMT systems in sharing and compatibility scenarios, section 9 describes integration of simulation results including means of comparing interim results in order to capture the impact on the performance and operation of the IMT system.

## Annex 3

### Topics to be addressed at the meetings of Working Parties 5A, 5B, 5C, 5D and Task Group 5/1 held prior to the meeting of Study Group 5 and for which draft Recommendations may be developed

#### Working Party 5A

Characteristics of systems operating in the amateur and amateur-satellite services for use in sharing studies (PDRR ITU-R M.1732 1 – See Annex 14 to Document [5A/114](#))

Use of structured data, error correction, and encoding/decoding techniques to improve communication reliability in the amateur services (PDNR ITU-R M.[AMATEUR-WSJT] – See Annex 16 to Document [5A/114](#))

Frequency arrangements for public protection and disaster relief radiocommunication systems in accordance with Resolution **646 (Rev.WRC-15)** (PDRR ITU-R M.2015-1 – See Annex 20 to Document [5A/114](#))

#### Working Party 5B

Characteristics of and protection criteria for radars operating in the radionavigation service in the frequency band 31.8-33.4 GHz (PDRR ITU-R M.1466-0 – See Annex 8 to Document [5B/71](#))

Technical characteristics for an automatic identification system using time division multiple access in the VHF maritime mobile frequency band (PDRR ITU-R M.1371-5 – See Annex 9 to Document [5B/71](#))

Procedures for determining the potential for interference between radars operating in the radiodetermination service and systems in other services (PDRR ITU-R M.1461-1 – See Annex 10 to Document [5B/71](#))

Mathematical models for radiodetermination radar systems antenna patterns for use in interference analyses (PDRR ITU-R M.1851-0 – See Annex 11 to Document [5B/71](#))

Technical characteristics of, and protection criteria for non-ICAO aeronautical radionavigation systems, operating around 1 GHz (PDRR ITU-R M.2013-0 – See Annex 12 to Document [5B/71](#))

Technical characteristics of, and protection criteria for aeronautical mobile systems operating in the frequency band 4 400-4 990 MHz (PDNR ITU-R M.[AMS 4.4-5GHz] – See Annex 13 to Document [5B/71](#))

### **Working Party 5C**

Reference radiation patterns of omnidirectional, sectoral and low gain other directional antennas for the fixed and mobile services for use in sharing studies in the frequency range from 400 MHz to about 70 GHz (PDRR ITU-R F.1336-4 – See Annex 2 to Document [5C/57](#))

Error performance and availability objectives and requirements for real point-to-point packet-based radio links (PDNR ITU-R F.[PERFORM] – See Annex 5 to Document [5C/57](#))

Reference radiation patterns for fixed wireless system antennas for use in coordination studies and interference assessment in the frequency range from 100 MHz to about 100 GHz (PDRR ITU-R F.699-7 – See Annex 8 to Document [5C/57](#))

Guidance on technical parameters and methodologies for sharing and compatibility studies related to HF fixed and land mobile services (PDNR ITU-R F.[HF-SHARE] – See Annex 11 to Document [5C/57](#))

System characteristic of television outside broadcast, electronic news gathering and electronic field production in the fixed service for use in sharing studies (PDRR ITU-R F.1777-1 – See Annex 12 to Document [5C/57](#))

System parameters and considerations in the development of criteria for sharing or compatibility between digital fixed wireless systems in the fixed service and systems in other services and other sources of interference (PDRR ITU-R F.758-6 – See Annex 13 to Document [5C/57](#))

### **Working Party 5D**

None

#### **Task Group 5/1**

None

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