



## Radiocommunication Bureau (BR)

Administrative Circular  
**CACE/773**

10 June 2016

**To Administrations of Member States of the ITU, Radiocommunication Sector Members,  
ITU-R Associates participating in the work of the Radiocommunication Study Group 4 and  
ITU Academia**

Subject: **Meeting of Radiocommunication Study Group 4 (Satellite services),  
Geneva, 7 October 2016**

### 1 Introduction

By means of this Administrative Circular, I wish to announce that a meeting of ITU-R Study Group 4 will take place in Geneva on Friday, 7 October 2016 following the meetings of Working Parties 4A, 4B and 4C (see Circular Letter [4/LCCE/120](#)).

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 at 1600 hours UTC	Opening session
Study Group 4	7 October 2016	Friday, 30 September 2016	Friday, 7 October 2016 at 0930 hours

### 2 Programme of the meeting

The draft agenda for the meeting of Study Group 4 is contained in Annex 1.

The status of texts assigned to Study Group 4 and its working parties is available in Document [4/1](#), which can be found on:

<http://www.itu.int/md/R15-SG04-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)

One draft new Recommendation and one draft revision of 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 A2.6.2.2.1 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 4A, 4B and 4C 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 held just 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 § A2.6.2.3.3 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 4 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 shall not be considered. Participants are requested to submit contributions by electronic mail to:

[rsg4@itu.int](mailto:rsg4@itu.int)

A copy should also be sent to the Chairman and Vice-Chairmen of Study Group 4. The pertinent addresses can be found on:

<http://www.itu.int/go/rsg4/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/R12-SG04.AR-C/en>.

The official versions will be posted on <http://www.itu.int/md/R12-SG04-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 directly contact 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 4
- ITU-R Associates participating in the work of Radiocommunication Study Group 4
- 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 4**

(Geneva, 7 October 2016)

- 1** Opening remarks
  - 1.1** Director BR
  - 1.2** Chairman
- 2** Approval of the agenda
- 3** Appointment of the Rapporteur
- 4** Summary Record of the previous meeting (Document [4/119](#) (2012-2015 study period))
- 5** Results of the RA-15 and WRC-15
- 6** Results of the first session of CPM-19 (CPM19-1)
- 7** Report of the RAG 2016 meeting
- 8** Consideration of the outputs of the Working Parties
  - 8.1** Working Party 4C
    - 8.1.1** Executive Report
    - 8.1.2** Draft Recommendations where notice of intention to seek adoption was not given (see Res. 1-7, §§ A2.6.2.2.3, A2.6.2.3 and A2.6.2.4)
    - 8.1.3** Draft Reports
    - 8.1.4** Draft Questions
  - 8.2** Working Party 4B
    - 8.2.1** Executive Report
    - 8.2.2** Draft Recommendations where notice of intention to seek adoption was given (see Res. 1-7, §§ A2.6.2.2.2 and A2.6.2.3)
    - 8.2.3** Draft Recommendations where notice of intention to seek adoption was not given (see Res. 1-7, §§ A2.6.2.2.3, A2.6.2.3 and A2.6.2.4)
    - 8.2.4** Draft Reports
    - 8.2.5** Draft Questions

- 8.3** Working Party 4A
  - 8.3.1** Executive Report
  - 8.3.2** Draft Recommendations where notice of intention to seek adoption was not given (see Res. 1-7, §§ A2.6.2.2.3, A2.6.2.3 and A2.6.2.4)
  - 8.3.3** Draft Reports
  - 8.3.4** Draft Questions
- 9** Status of texts assigned to Study Group 4
- 10** Liaison with other Study Groups and international organizations
- 11** Consideration of future work programme and schedule of meetings
- 12** Any other business

C. HOFER  
Chairman, Radiocommunication Study Group 4

## Annex 2

### **Titles and summaries of the draft Recommendations proposed for adoption at the Study Group 4 meeting**

Draft new Recommendation ITU-R BO.[UHDTV TRANSMISSION]

Doc. [4/7](#)

#### **Transmission system for UHDTV satellite broadcasting**

UHDTV broadcasting requires transmission capacity that goes beyond conventional HDTV broadcasting. This Recommendation defines a transmission system for UHDTV satellite broadcasting.

Draft revision of Recommendation ITU-R BO.1784

Doc. [4/8](#)

#### **Digital satellite broadcasting system with flexible configuration (television, sound and data)**

The aim of this revision is to add DVB-S2X specifications.

DVB-S2X is an extension of the DVB-S2 specification, as described in Recommendation ITU-R BO.1784, for satellite broadband applications and provides additional technologies and features. It uses the proven and powerful low-density parity check (LDPC) forward error correction (FEC) scheme in combination with Bose-Chaudhuri-Hochquenghem (BCH) FEC as outer code and introduces the following additional elements:

- Smaller roll-off options of 5% and 10% (in addition to 20%, 25% and 35% in DVB-S2).
- A finer gradation and extension of number of modulation and coding modes.
- New constellation options for linear and non-linear channels.
- Additional scrambling options for critical co-channel interference situations.
- Channel bonding over up to 3 channels.
- Very low SNR operation support down to –10 dB SNR.
- Super-frame option.

## **Annex 3**

### **Topics to be addressed at meetings of Working Parties 4A, 4B and 4C held prior to the meeting of Study Group 4 and for which draft Recommendations may be developed**

#### **Working Party 4A**

Technical and operational characteristics of Unmanned Aircraft Control and Non-Payload satellite communication links operated in certain frequency bands allocated to the fixed-satellite service not subject to RR Appendices **30**, **30A** and **30B** (PDNR ITU-R S.[FSS-REF\_FOR-UA] - see Annex 1 to Document [4A/63](#)).

#### **Working Party 4B**

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#### **Working Party 4C**

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