Radiocommunication Bureau (BR)

Circular Letter   18 March 2019
4/LCCE/125

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

Subject: **Meetings of Working Parties 4A, 4B and 4C**

Working Party 4A: **Efficient orbit/spectrum utilization for FSS and BSS**

Working Party 4B: **Systems, air interfaces, performance and availability objectives for FSS, BSS and MSS, including IP-based applications and satellite news gathering**

Working Party 4C: **Efficient orbit/spectrum utilization for MSS and RDSS**

1   Introduction

By means of this Circular Letter, I wish to announce that meetings of ITU-R Working Parties 4A, 4B and 4C will take place in the ITU Headquarters in Geneva from 19 June to 4 July 2019 (see the table below).

Groups	Meeting dates	Deadline for contributions 16:00 hours UTC	Opening session
Working Party 4A	26 June – 4 July 2019	Wednesday, 19 June 2019	Wednesday, 26 June 2019 at 0930 hours
Working Party 4B	24 – 28 June 2019	Monday, 17 June 2019	Monday, 24 June 2019 at 0930 hours
Working Party 4C	19 – 25 June 2019	Wednesday, 12 June 2019	Wednesday, 19 June 2019 at 0930 hours

## 2		Programme of the meetings of Working Parties

Draft agendas for the meetings are contained in the Annex.

The status of texts assigned to the Working Parties can be found on:

http://www.itu.int/md/R15-SG04-C-0001/en

The Working Parties will conduct their work in English.

## 3		Contributions

Contributions in response to the work of Working Parties 4A, 4B and 4C are invited. These will be 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 seven calendar days (1600 hours UTC) prior to the start of the meeting. **The deadlines for reception of contributions for these meetings are specified in the table above.** Submissions received later than these deadlines 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: rsg4@itu.int. A copy of each contribution should also be sent to the Chairman of the relevant Working Party and to the Chairman and Vice-Chairmen of Study Group 4. The pertinent addresses can be found on:

http://itu.int/go/rwp4a/ch

http://itu.int/go/rwp4b/ch

http://itu.int/go/rwp4c/ch

http://itu.int/go/rsg4/ch

## 4		Documents

Contributions will be posted "as received" within one working day on the Working Party webpages established for this purpose. The official versions will be posted on http://www.itu.int/ITU-R/go/rsg4/en (see "contributions" of the relevant Working Party) within 3 working days.

In accordance with Resolution 167 (Rev. Dubai, 2018) **the meetings 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 2nd basement of the Tower building and on the ground and first floors of the Montbrillant building for delegates who wish to print documents. In addition, a limited number of laptops are available for those who do not have one. Please enquire at the Service Desk (servicedesk@itu.int) for further information.

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

5   Remote participation

In order to follow the proceedings of ITU-R meetings remotely an audio webcast of the Working Party plenary sessions 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.

Remote participants wishing to actively participate (e.g. to introduce a contribution) will need to register in advance for the meeting by indicating this intention to their Designated Focal Points (see section 6). Additionally, they need to coordinate their active participation at least one month prior to the meeting with the responsible Counsellor.

Further information regarding remote participation can be found at:

www.itu.int/ITU-R/go/rsg-remote/

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

Mario Maniewicz
Director

Annex: 1

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
- Chairman and Vice-Chairmen of Radiocommunication Study Group 4
- Secretary General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

ANNEX

Draft agenda for the meeting of Working Party 4A

(Geneva, 26 June – 4 July 2019)

1 Opening remarks

2 Approval of the agenda

3 Report of the last meeting of Working Party 4A (Document 4A/826)

4 Review of liaison with other Working Parties

5 Reports from Correspondence Groups

6 Review of possibilities for development of draft Recommendations and Reports

7 Adoption of work program for the meeting

8 Establishment of Working Groups and assignment of documents

9 Appointment of Working Group Chairmen

10 Any other business

J. WENGRYNIUK
Chairman, Working Party 4A

Draft agenda for the meeting of Working Party 4B

(Geneva, 24 – 28 June 2019)

1   Opening remarks

2   Approval of the agenda

3   Report of the last meeting of Working Party 4B (Document 4B/145)

4   Attribution of documents

5   Establishment of Sub-Working Groups

6   Introduction of documents

7   Sub-Working Group meetings

8   Approval of output documents

9   Any other business

D. WEINREICH
Chairman, Working Party 4B

Draft agenda for the meeting of Working Party 4C

(Geneva, 19 – 25 June 2019)

1   Opening remarks

2   Approval of the agenda

3   Report of the last meeting of Working Party 4C (Document 4C/417)

4   Review of liaison with other Working Parties

5   Reports from Rapporteurs and Correspondence Groups

6   Review of possibilities for development of draft Recommendations and Reports

7   Adoption of work program for the meeting

8   Establishment of Sub-Working Groups and assignment of documents

9   Appointment of Sub-Working Group Chairmen

10   Any other business

N. KAWAI
Chairman, Working Party 4C

Administrative Circular
CACE/892

27 March 2019

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, 5 July 2019**

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, 5 July 2019 following the meetings of Working Parties 4A, 4B and 4C (see Circular Letter 4/LCCE/125).

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	5 July 2019	Friday, 28 June 2019	Friday, 5 July 2019 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)

Five draft revisions of Recommendations 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 revisions of 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 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

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/R15-SG04.AR-C/en

The official versions will be posted on http://www.itu.int/md/R15-SG04-C/en within 3 working days.

In accordance with Resolution 167 (Rev. Dubai, 2018), **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 2nd 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) has prepared a limited number of laptops for those who do not have one.
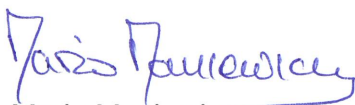
5   Remote participation

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.

Mario Maniewicz
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, 5 July 2019)

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 4/47)

5   Report of the RAG 2018 and 2019 meetings

6   Consideration of the outputs of the Working Parties

     6.1   Working Party 4C

          6.1.1   Executive Report

          6.1.2   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)

          6.1.3   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)

          6.1.4   Draft Reports

          6.1.5   Draft Questions

     6.2   Working Party 4B

          6.2.1   Executive Report

          6.2.2   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)

          6.2.3   Draft Reports

          6.2.4   Draft Questions

     6.3   Working Party 4A

          6.3.1   Executive Report

          6.3.2   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)

          6.3.3   Draft Reports

          6.3.4   Draft Questions

7   Status of texts assigned to Study Group 4

8   Liaison with other Study Groups and international organizations

9   Consideration of future work programme and schedule of meetings

10   Any other business

C. HOFER
Chairman, Radiocommunication Study Group 4

Annex 2

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

Guidance on ITU-R Recommendations related to systems and networks in the radionavigation-satellite service operating in the frequency bands 1 164-1 215 MHz, 1 215-1 300 MHz, 1 559-1 610 MHz, 5 000-5 010 MHz and 5 010-5 030 MHz

This revision includes: 1) a minor clarification in *recognizing f)*; 2) updates to Table 3 and its notes, including deletion of one note; and 3) addition of two new notes on assessment of interference from pulsed sources.

Characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (space-to-Earth) operating in the band 1 215-1 300 MHz

This revision includes updates to the GLONASS information to make available the most recent details of the system including new CDMA signals. It also proposes updates to the information about characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (RNSS) operating in the band 1 215-1 300 MHz, taking into account the updated information about the GLONASS system. Some updates have also been made to footnote 1 defining CDMA and FDMA as well as clarification of what is meant by the term "pulsed interference" throughout Annex 1. Also in Annex 1, a number of clarifications are made to Table 1-1 and the related notes.

Characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (space-to-Earth) and receivers in the aeronautical radionavigation service operating in the band 1 559-1 610 MHz

This revision includes updates to the GLONASS information to make available the most recent details of the system including new CDMA signals. It also proposes updates to the information about characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (RNSS) operating in the band 1 559-1 610 MHz, taking into account the updated information about the GLONASS system.

This revision also includes replacing Footnote 1 to the title regarding terrestrial transmitters in the ARNS with reference to new Note 3 of the Recommendation. In addition, WRC-15 suppressed RR Nos. **5.362B** and **5.362C**, so references to those former provisions in *recognizings e)* and *f)* are no longer appropriate and they are deleted. Some updates have also been made to footnotes defining CDMA and FDMA as well as clarification of what is meant by the term "pulsed interference" throughout Annex 2. Also in Annex 2, a number of clarifications are made to the titles of Figure 1 and Table 1, and to Table 2 and the related notes. Figure 2 has also been replaced.

Draft revision of Recommendation ITU-R M.1904-0   Doc. 4/55

Characteristics, performance requirements and protection criteria for receiving stations of the radionavigation-satellite service (space-to-space) operating in the frequency bands 1 164-1 215 MHz, 1 215-1 300 MHz and 1 559-1 610 MHz

This revision includes updates to the GLONASS information to make available the most recent details of the system including new CDMA signals. It also proposes updates to the information about characteristics, performance requirements and protection criteria for spaceborne receiving stations of the radionavigation-satellite service (RNSS), taking into account the updated information about the GLONASS system. The only other proposed updates are confined to the tables and associated notes in Annexes 1, 2 and 3.

Draft revision of Recommendation ITU-R M.1905-0   Doc. 4/56

Characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (space-to-Earth) operating in the band 1 164-1 215 MHz

This revision includes updates to the GLONASS information to make available the most recent details of the system including new CDMA signals. It also proposes updates to the information about characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service operating in the band 1 164-1 215 MHz, taking into account the updated information about the GLONASS system. Some updates have also been made for clarification throughout Annex 2, including in Table 2-1 and the related notes.

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

Maximum permissible levels of interference in a satellite network (GSO and non-GSO) in the fixed-satellite service caused by other co-directional FSS and BSS networks operating in the 50/40 GHz frequency bands (PDNR ITU-R S.[50/40 GHz FSS SHARING Methodology] – see Annex 1 to Document 4A/826).

Guidelines on global broadband Internet access by fixed-satellite service systems (PDRR ITU-R S.1782-0– see Annex 2 to Document 4A/826).

Working Party 4B

Performance objectives for satellite hypothetical reference digital paths using adaptive coding and modulation (PDNR ITU-R S.[ACM-PERF] – see Annex 9 to Document 4B/145).

Working Party 4C

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