



## Radiocommunication Bureau (BR)

Administrative Circular  
**CACE/1004**

26 November 2021

**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: **Radiocommunication Study Group 4 (Satellite services)**

- **Proposed adoption of 3 draft revised ITU-R Recommendations and their simultaneous approval by correspondence in accordance with § A2.6.2.4 of Resolution ITU-R 1-8 (Procedure for the simultaneous adoption and approval by correspondence)**

At the meeting of Radiocommunication Study Group 4, held on 5 November 2021, the Study Group decided to seek adoption of 3 draft revised ITU-R Recommendations by correspondence (§ A2.6.2 of Resolution ITU-R 1-8) and further decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA, § A2.6.2.4 of Resolution ITU-R 1-8). The titles and summaries of the draft Recommendations are given in the Annex to this letter. Any Member State which objects to the adoption of a draft Recommendation is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

The consideration period shall extend for 2 months ending on 26 January 2022. If within this period no objections are received from Member States, the draft Recommendations shall be considered to be adopted by Study Group 4. Furthermore, since the PSAA procedure has been followed, the draft Recommendations shall also be considered as approved.

After the above-mentioned deadline, the results of the above procedures 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

**Annex:** Titles and summaries of the draft Recommendations

**Documents:** Documents 4/34(Rev.1), 4/37(Rev.1) and 4/39(Rev.1)

These documents are available in electronic format at: <https://www.itu.int/md/R19-SG04-C/en>

## Annex

### Titles and summaries of the draft ITU-R Recommendations

Draft revision of Recommendation ITU-R M.1901-2

Doc. 4/34(Rev.1)

#### **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 Recommendation is revised to update references to ITU-R Recommendations and Reports related to the technical characteristics and protection criteria of radionavigation-satellite service (RNSS) receiving earth stations and characteristics of RNSS transmitting space stations planned or 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.

Draft revision of Recommendation ITU-R S.2131-0

Doc. 4/37(Rev.1)

#### **Method for the determination of performance objectives for satellite hypothetical reference digital paths using adaptive coding and modulation**

This Recommendation is revised to modify equation (3) in order to take into account the spectral efficiency characteristics of the MODCOD schemes defined in the DVB-S2X specification, especially in very low and high signal to noise ratio values. Tables 4 and 5 which are used to estimate degraded throughput are modified to increase the available time percentage of year from 99.6% to 99.7%. In addition, Note 4 of *recommends* 2 is modified for better understanding of this Recommendation.

Draft revision of Recommendation ITU-R S.1714-0

Doc. 4/39(Rev.1)

#### **Static methodology for calculating $epfd_{\downarrow}$ to facilitate coordination of very large antennas under Nos. 9.7A and 9.7B of the Radio Regulations**

This revision addresses an error in Case 1 of Recommendation ITU-R S.1714 regarding the incorrect determination of Alpha when evaluating pfd masks provided in Alpha vs Delta Longitude vis-à-vis GSO satellites operating with inclination. In addition, this revision adds a step to Case 2 and a note to Case 3 to determine if they are the appropriate cases to use for a given situation. Finally, this revision makes edits to all cases to calculate  $epfd_{\downarrow}$  trigger levels and verify their compliance.

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