



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

> Administrative Circular CAR/323

12 October 2011

To Administrations of Member States of the ITU

Subject: Radiocommunication Study Group 4 (Satellite services)

- Proposed adoption of 4 draft new Recommendations and 3 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)
- Proposed suppression of 2 Recommendations

At the meeting of Radiocommunication Study Group 4, held on 29-30 September 2011, the Study Group decided to seek adoption of 4 draft new Recommendations and 3 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 Annex 1. Furthermore, the Study Group proposed the suppression of 2 Recommendations which are listed in Annex 2.

The consideration period shall extend for 3 months ending on <u>12 January 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 4. 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.

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Annex 2: Recommendations proposed for suppression

Documents attached:	Documents 4/175(Rev.1), 4/176(Rev.1), 4/181(Rev.1), 4/188(Rev.1),
	4/198(Rev.1), 4/199(Rev.1), 4/200(Rev.1) on CD-ROM

Distribution:

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

Annex 1

Titles and summaries of the draft Recommendations

Draft new Recommendation ITU-R S.[CROSS_LAYER]

Doc. 4/188(Rev.1)

Cross-layer QoS provisioning in IP-based hybrid satellite-terrestrial networks

This draft new Recommendation on cross-layer based QoS provisioning in IP-based satellite networks provides guidelines about implementing cross-layer design approaches for improving the performance of multimedia applications over satellite networks (either stand-alone or hybrid).

Draft new Recommendation ITU-R BO.[PFD_TERRESTRIAL]

Doc. 4/198(Rev.1)

Power flux-density value required for the protection of receiving earth stations in the broadcasting-satellite service in Regions 1 and 3 from emissions by a station in the fixed and/or mobile services in the band 21.4-22 GHz

In preparation of WRC-12 Agenda item 1.13, sharing between BSS and terrestrial services in the 21.4-22 GHz band was discussed. During these discussions, various methods were considered to ensure the protection of BSS receiving earth stations from terrestrial transmitters. One possible method to achieve such a goal is to provide the value of the power flux-density produced by emissions from a station in the fixed service and mobile service in order to protect the broadcasting-satellite network in Regions 1 and 3 in the band 21.4-22.0 GHz. This power flux-density value can be used as the hard limit to ensure the protection of the broadcasting-satellite network in Regions 1 and 3 permanently or as the coordination threshold for application of coordination procedure in this band, as appropriate. The application of the power flux-density value is a regulatory issue, which is outside of the scope of this draft new Recommendation.

This draft new Recommendation would serve as a guidance to Administrations in their bilateral or multilateral negotiations in providing the detailed methodology and the derived power flux-density value.

Protection criteria and interference assessment methods for non-GSO inter-satellite links in the 23.183-23.377 GHz band with respect to the space research service

This draft new Recommendation presents protection criteria and interference assessment methods for non-GSO inter-satellite links in the 23.183-23.377 GHz band with respect to the space research service. These criteria and methods have been developed through extensive liaison between WP 4A and WP 7B, and have been used already in some studies referenced in the CPM Report to WRC-12. This draft new Recommendation captures these criteria for use in any future studies.

Draft new Recommendation ITU-R BO.[BSS_ANT_PATT] Doc. 4/200(Rev.1)

Reference receive earth station antenna pattern for the broadcasting-satellite service in the band 21.4-22 GHz in Regions 1 and 3

This draft new Recommendation addresses the reference receiving earth station antenna pattern for the BSS in the band 21.4-22.0 GHz in Regions 1 and 3 for sharing studies. It has been developed based on measured data provided to ITU-R and is believed to represent achievable performance of representative BSS receive antennas in this frequency band.

Draft revision of Recommendation ITU-R M.1478-1

Doc. 4/175(Rev.1)

Protection criteria for Cospas-Sarsat search and rescue instruments in the band 406-406.1 MHz

This draft revision of Recommendation ITU-R M.1478-1 includes protection criteria in the 406-406.1 MHz band for Cospas-Sarsat Electro GEOSAR/GLONASS MEOSAR service that receive signals from distress radio beacons.

The analysis provided in Annex 8 establishes interference protection criteria in the 406.0-406.1 MHz band for Electro GEOSAR services.

The analysis provided in Annex 9 establishes interference protection criteria in the 406.0-406.1 MHz band for GLONASS MEOSAR services.

A scope has also been added.

Protection criteria for Cospas-Sarsat local user terminals in the band 1 544-1 545 MHz

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This draft revision of Recommendation ITU-R M.1731-1 includes protection criteria in the 1 544-1 545 MHz band for Cospas-Sarsat GEOLUTs/MEOLUTs that receive signals from distress radio beacons operating at 406 MHz, relayed through the Electro and GLONASS satellites.

The analysis provided in the new Annex 6 establishes interference protection criteria for GEOLUTs that receive the Electro 1 544-1 545 MHz downlink.

The analysis provided in the new Annex 7 establishes interference protection criteria for MEOLUTs that receive the GLONASS 1 544-1 545 MHz downlink.

In addition, Annex 8 has been renumbered and continues to provide the link budget calculations for all the Cospas-Sarsat satellites.

Draft revision of Recommendation ITU-R M.1787

Doc. 4/181(Rev.1)

Description of systems and networks in the radionavigation-satellite service (space-to-Earth and space-to-space) and technical characteristics of transmitting space stations operating in the bands 1 164-1 215 MHz, 1 215-1 300 MHz and 1 559-1 610 MHz

The information on orbital parameters, navigation signals and technical characteristics of systems and networks in the radionavigation-satellite service (RNSS) (space-to-Earth, space-to-space) operating in the bands 1 164-1 215 MHz, 1 215-1 300 MHz, and 1 559-1 610 MHz are presented in this draft revision of Recommendation ITU-R M.1787. This information is intended for use in performing analyses of the impact of radio frequency interference between systems and networks in the RNSS and with other services and systems. The most significant change is the addition of a new Annex 10 to the Recommendation which provides information on a new RNSS system submitted by the Republic of India. Also, minor updates are proposed to Annexes 2, 3, 4, 6 and 7.

Annex 2

(Source: Documents 4/150 and 4/196)

Recommendations proposed for suppression

Recommendation ITU-R	Title
S.725	Technical characteristics for very small aperture terminals (VSATs)
SF.1481-1	Frequency sharing between systems in the fixed service using high altitude platform stations and satellite systems in the geostationary orbit in the fixed-satellite service in the bands 47.2-47.5 and 47.9-48.2 GHz