

# INTERNATIONAL TELECOMMUNICATION UNION



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**Administrative Circular**  
**CACE/592**

22 November 2012

**To Administrations of Member States of the ITU, Radiocommunication Sector Members,  
ITU-R Associates participating in the work of Radiocommunication Study Group 6  
and ITU-R Academia**

**Subject: Radiocommunication Study Group 6 (Broadcasting service)**

- Proposed adoption of 2 draft new ITU-R Recommendations and 7 draft revised ITU-R Recommendations and their simultaneous approval by correspondence in accordance with § 10.3 of Resolution ITU-R 1-6 (Procedure for the simultaneous adoption and approval by correspondence)**

At the meeting of Radiocommunication Study Group 6, held from 30 to 31 October 2012, the Study Group decided to seek adoption of 2 draft new ITU-R Recommendations and 7 draft revised ITU-R Recommendations by correspondence (§ 10.2.3 of Resolution ITU-R 1-6) and further decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA), (§ 10.3 of Resolution ITU-R 1-6). The titles and summaries of the draft Recommendations are given in the Annex.

The consideration period shall extend for 2 months ending on 22 January 2013. If within this period no objections are received from Member States, the draft Recommendations shall be considered to be adopted by Study Group 6. Furthermore, since the PSAA procedure has been followed, the draft Recommendations shall also be considered as approved.

Any Member State who 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.

After the above-mentioned deadline, the results of the PSAA procedure 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 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>.

François Rancy  
Director, Radiocommunication Bureau

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

**Documents:** Document 6/71(Rev.1), 6/72(Rev.1), 6/74(Rev.1), 6/75(Rev.1), 6/81(Rev.1), 6/85(Rev.1), 6/87(Rev.1), 6/89(Rev.1) and 6/90(Rev.1)

These documents are available in electronic format at: <http://www.itu.int/md/R12-sg06-c>

**Distribution:**

- Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 6
- ITU-R Associates participating in the work of Radiocommunication Study Group 6
- ITU-R Academia
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups and the Special Committee on Regulatory/Procedural Matters
- 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**

### **Titles and summaries of the draft Recommendations**

Draft new Recommendation ITU-R BS.[SYNC]

Doc. 6/75(Rev.1)

#### **Synchronization of digital audio sample clock to video references**

This Recommendation provides methods for synchronizing interconnected digital audio equipment, and to address synchronization of the audio sample clocks to video reference signals.

Synchronization of digital audio signals is a necessary function for the exchange of signals between equipment. The objective of synchronization is primarily to time align sample clocks within digital audio signal sources and align them with video frames/fields.

The provisions make use of the two-channel digital audio interface standard for professional use, Recommendation ITU-R BS.647.

Draft new Recommendation ITU-R BT.[2NDDTTBPLAN]

Doc. 6/90(Rev.1)

#### **Planning criteria, including protection ratios, for second generation of digital terrestrial television broadcasting systems in the VHF/UHF bands**

This Recommendation defines planning criteria, including protection ratios, for various methods of providing second generation digital terrestrial television broadcasting (DTTB) systems in the VHF/UHF bands.

Draft revision of Recommendation ITU-R BT.1699-1

Doc. 6/71(Rev.1)

#### **Harmonization of declarative application formats for interactive TV**

This draft revision of Recommendation ITU-R BT.1699-1, "Harmonization of declarative application formats for interactive TV" proposes to add functionalities for hybrid broadcasting services for BML.

Draft revision of Recommendation ITU-R BR.1352-3

Doc. 6/72(Rev.1)

### **File format for the exchange of audio programme materials with metadata on information technology media**

This draft revision of Recommendation ITU-R BR.1352 is proposed to add some loudness metadata values and definitions.

Draft revision of Recommendation ITU-R BS.1548-3

Doc. 6/74(Rev.1)

### **User requirements for audio coding systems for digital broadcasting**

This Recommendation contains appendices containing information about audio coding systems that have been shown to meet the requirements for digital television broadcasting. Study Group 6 (Working Party 6B) has determined that quality of MPEG AAC LC with MPEG Surround at a bit rate of 384 kbit/s fulfils the requirements for high emission quality for 5.1 channel audio. Study Group 6 believes that inclusion of this information into the Recommendation would be of value. This draft revision adds AAC LC with MPEG Surround to the table of codecs contained in Appendix 1 to Annex 2, Table 2. This update to the Recommendation complements rather than changes agreements reached in the previous version.

Draft revision of Recommendation ITU-R BT.1206

Doc. 6/81(Rev.1)

### **Spectrum shaping limits for digital terrestrial television broadcasting**

Recommendation ITU-R SM.1541 provides generic spectrum limit masks; hence the proposed modifications to Recommendation ITU-R BT.1206 reflect specific OoB domain emission limits developed for different digital broadcasting terrestrial television systems by taking into account the actual application, modulation, filtering capabilities of the system and the need to enhance compatibility with other radio services. In particular, the presentation of the material was re-ordered such that the spectrum limit masks are differentiated according to the different digital terrestrial television systems, whereas previously the spectrum masks were provided for different channel bandwidth.

### **Planning criteria, including protection ratios, for digital terrestrial television services in the VHF/UHF bands**

The following changes were made in this revision:

1. UE PR corrections for UE ACLR of 25.2 dB (N-1) and 32.2 (N+2), and 88 dB for > N+2, using a co-channel PR of 18.7 dB. (Table 38, 38A, 38B affected).
2. Addition of a single value table for sharing using 90 percentile BS PR, and corrected UE PR, as well as 10 percentile  $O_{th}$  over all traffic loads and tuner types. Added co-channel PR for AWGN (additive white Gaussian noise), LTE BS and UE interferers to this table (38B).
3. Minor recalculations of a small number of silicon tuner PR and  $O_{th}$  results were made on very early UE measurement results using pulsed waveforms interferers (before the LTE recordings started). Two tuners that had "not reached" the overload condition (NR results) were not contributing to the overall  $O_{th}$  result, giving an artificially low  $O_{th}$  based on bad tuners. This has been fixed.
4. Statement added on how to interpret can tuner measurement results if guard band >1 MHz.

### **Error-correction, data framing, modulation and emission methods for terrestrial multimedia broadcasting for mobile reception using handheld receivers in VHF/UHF bands**

This revision aims to introduce error-correction, data framing, modulation and emission methods for two new terrestrial multimedia broadcasting systems namely system H (DVB-H) and (T2 Lite profile of DVB-T2 system).

## **Transmitting antenna characteristics at VHF and UHF**

Study Group 6 agreed to the following changes which address inconsistencies in Recommendation ITU-R BS.1195. SG 6 also agreed that this Recommendation should have additionally the same number in the BT-Series, i.e., BT.1195.

- Re-define (in page 3 of English version) the coordinate system.
  - Include additional text to explain the reasons for doing this.
  - To measure both  $\theta$  and  $\phi$  in radians rather than degrees.
  - Adjust the original Figure 1 to remove the horizontal ground plane.
  - In formulas 3 and 4 change the integration limits.
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