



Radiocommunication Bureau (BR)

Administrative Circular
CACE/913

14 August 2019

**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 Academia**

Subject: Radiocommunication Study Group 6 (Broadcasting service)

- **Proposed adoption of 2 draft new ITU-R Recommendations and 9 draft revised ITU-R Recommendations and their simultaneous approval by correspondence in accordance with § A2.6.2.4 of Resolution ITU-R 1-7 (Procedure for the simultaneous adoption and approval by correspondence)**
- **Proposed suppression of 1 ITU-R Recommendation**

At the meeting of Radiocommunication Study Group 6, held on 26 July 2019, the Study Group decided to seek adoption of 2 draft new and 9 draft revised ITU-R Recommendations by correspondence (§ A2.6.2 of Resolution ITU-R 1-7) and further decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA, § A2.6.2.4 of Resolution ITU-R 1-7). The titles and summaries of the draft Recommendations are given in Annex 1. 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.


The consideration period shall extend for 2 months ending on 14 October 2019. 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.

In addition, the Study Group proposed the suppression of the 1 Recommendation listed in Annex 2. Any Member State who objects to the suppression of a 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 14 October 2019. If within this period no objections to the proposed suppression are received from Member States, the Recommendation shall be considered to be suppressed.

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 1: Titles and summaries of the draft Recommendations

Annex 2: Recommendation proposed for suppression

Documents: Documents 6/362(Rev.1), 6/363(Rev.1), 6/364, 6/377, 6/379(Rev.1), 6/384, 6/389(Rev.1), 6/390, 6/391, 6/392(Rev.1), 6/393(Rev.1) and 6/346

These documents are available in electronic format at: <https://www.itu.int/md/R15-SG06-C/en>

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 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

Titles and summaries of the draft Recommendations

Draft new Recommendation ITU-R BS.[MS-NOREF]

Doc. 6/379(Rev.1)

Method for the subjective quality assessment of audible differences of sound systems using multiple stimuli without a given reference

This Recommendation specifies a new method using multiple stimuli without a given reference, for the subjective quality assessment of audible differences of audio systems.

Draft new Recommendation ITU-R BT.[AIAV TRANS]

Doc. 6/384

Transport of advanced immersive audio-visual (AIAV) content in IP-based broadcasting systems

This Recommendation provides guidance on using ISO/IEC 23090-2 (Omnidirectional media format, also known as OMAF) to transport advanced immersive audio-visual (AIAV) content in IP-based broadcasting systems.

Draft revision of Recommendation ITU-R BT.1702-1

Doc. 6/362(Rev.1)

Guidance for the reduction of photosensitive epileptic seizures caused by television

This revision to Recommendation ITU-R BT.1702-1 adds the methodology for testing of High Dynamic Range images to the existing Standard Dynamic Range procedure. The revision consists of:

- 1 The use of Michelson contrast $(L_{HIGH} - L_{LOW}) / (L_{HIGH} + L_{LOW})$ for the assessment of images where the darker image is greater than 160 cd/m^2 .
- 2 An assumed display gamma of 2.4 (instead of 2.2) to more accurately reflect modern flat screen televisions.
- 3 Changing the time parameter used to describe "a sequence to flashes" from frames to ms.

A guide to ITU-R Recommendations for subjective assessment of sound quality

This revision to Recommendation ITU-R BS.1283-1 adds two new subjective evaluation methods to a guide ITU-R Recommendation for subjective assessment of sound quality:

- Recommendation ITU-R BS.[MS-NOREF] – *Method for the subjective quality assessment of audible differences of sound systems using multiple stimuli without a given reference;*
- Recommendation ITU-R BS.2126 – *Methods for the subjective assessment of audio systems with accompanying picture.*

Furthermore, a list of example use cases for subjective assessment of sound quality is given as additional guidance.

Methodology for the subjective assessment of the quality of television pictures

This revision reformats ITU-R BT.500-13 into four sections and absorbs several other subjective image assessment Recommendation. The first section is a draft revision of ITU-R BT.500-13 which is the “parent” part with a short informative guide to the structure of revised ITU-R BT.500 and a “workflow” diagram which gives guidance to the use of the Recommendation. The other three sections are the operational parts of ITU-R BT.500-13 divided as follows:

- Part 1 – Description of the common requirements for subjective image assessments that gives guidance on the common requirements that should be used when carrying out subjective image assessments and also gives advice on the selection of the most appropriate subjective image methodology from the various recommended options in detailed in Part 2.
- Part 2 – Description of subjective image assessment methodologies contains Annexes that describe the various recommended subjective image assessment methodologies available.
- Part 3 – Application specific considerations contains annexes that describe the various recommended subjective image assessment methodologies specific to image formats or applications based on the specifications given in Parts 1 and 2.

Draft revision of Recommendation ITU-R BS.450-3

Doc. 6/377

Transmission standards for FM sound broadcasting at VHF

Tables 1A and 1B in Annex 1, which contained historical information pertaining to only a few countries' use of Band 8 for FM sound broadcasting, have been removed. Consequentially, references to Annex 1 in the body of the Recommendation have also been removed. Sections on Scope and Keywords have been added in line with current ITU-R practice. Finally, some small editorial clarifications have been made.

Draft revision of Recommendation ITU-R BS.1196-7

Doc. 6/389(Rev.1)

Audio coding for digital broadcasting

This revision to Recommendation ITU-R BS.1196-7 adds MPEG-H 3D Audio and AC-4 to the list of recommended audio codecs for contribution and distribution, and adds DTS-UHD to the list of recommended audio codecs for emission.

Draft revision of Recommendation ITU-R BS.1548-6

Doc. 6/390

User requirements for audio coding systems for digital broadcasting

This revision to Recommendation ITU-R BS.1548-6 adds MPEG-H 3D Audio and AC-4 to the list of recommended audio codecs for contribution and distribution and DTS-UHD to the list of recommended audio codecs for emission.

Draft revision of Recommendation ITU-R BT.1872-2

Doc. 6/391

User requirements for broadcast auxiliary services including digital television outside broadcast, electronic/satellite news gathering and electronic field production

This revision to Recommendation ITU-R BT.1872-2 adds MPEG-H 3D Audio and AC-4 to the list of recommended audio codecs as indicated in Tables 1 and 4.

Audio Definition Model

This revision of Recommendation ITU-R BS.2076-1 includes both editorial and technical updates. A detailed list of the updates/changes is provided in the form of a new Preface to the document to assist in identifying these changes from the previous version.

Long-form file format for the international exchange of audio programme materials with metadata

This revision of Recommendation ITU-R BS.2088-0 adds new chunks of <bxml> and <sxml> for the compressed XML code and the time-series of XML code, respectively, and adds a specification to omit two ADM elements when an audio signal is linear PCM and some editorial modifications. Modifications are as follows:

- 1 new chunks of <bxml> and <sxml> are added in Scope, sections 1, 2.1, 2.3, 2.6, new sections 6, 7, 8, 10, 11;
- 2 specification to omit audioStreamFormat and audioTrackFormat is added in section 8;
- 3 new rules for XML chunks are clarified in new section 9;
- 4 new informative Annex 4 is added.
- 5 keywords, *considering*, sections 1, 2.2, 2.4, 2.5, 2.6, 3, 4, 5, new sections 8, 13, section 1 in Annex 1 are updated;
- 6 Figures 1, 2, 3 are updated.

Annex 2

(Source: Document 6/346)

ITU-R Recommendation proposed for suppression

Recommendation ITU-R	Title
BS.1286	Methods for the subjective assessment of sound systems with accompanying picture
