Administrative Circular
CACE/1076

22 September 2023

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 1 draft new and 8 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)**

– **Proposed suppression of 39 ITU-R Recommendations**

At the meeting of Radiocommunication Study Group 6, held on 8 September 2023, the Study Group decided to seek adoption of 1 draft new and 8 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 1 to this letter. Any Member State raising an objection 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 22 November 2023. 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 39 Recommendations 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 22 November 2023. If within this period no objections to the proposed suppressions are received from Member States, the Recommendations 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: Recommendations proposed for suppression

Documents: Documents 6/362, 6/363, 6/364, 6/365(Rev.1), 6/369, 6/371, 6/372(Rev.1), 6/375, 6/386, 6/390, 6/393(Rev.1), 6/399.

These documents are available in electronic format at: https://www.itu.int/md/R19-SG06-C/en

Annex 1

Titles and summaries of the draft ITU-R Recommendations

Draft new Recommendation ITU-R BT.[MIL] Doc. 3/372(Rev.1)

Objective measurement algorithm for evaluation of the brightness of high dynamic range television

This draft new Recommendation specifies a measurement algorithm for the purpose of determining the Image Level, based on mean image luminance, which may be useful for assessing the brightness of individual images. Further metrics, based on the Image Level, are Temporal Image Level and Image Level Response which may be useful in modelling the response of the human visual system to a sequence of images.

Draft revision of Recommendation ITU-R BS.1909-0 Doc. 6/362

Performance requirements for an advanced sound system for use with or without accompanying picture

This draft revision clarifies requirements for an advanced sound system for varying video presentations.

– The title and Scope are revised.
– The *Keywords* and *recognizing* sections are added.
– The *considering* section is thoroughly revised.
– The item 2 in *recommends* section is removed.
– The old Figure 1 in Attachment 1 to Annex 1 is removed.

Draft revision of Recommendation ITU-R BS.1770-4 Doc. 3/363

Algorithms to measure audio programme loudness and true-peak audio level

This draft revision adds an algorithm to measure objective loudness of object-based audio signals or combination of channel-based and object-based audio signals. This algorithm is based on the algorithm for channel-based audio described in Annex 3. This draft revision also adds loudspeaker configurations I and J and corrects loudspeaker configuration G.

– *Keywords* section is added.
– Appendix is changed to Attachment in Annexes 1 and 3.
– References have been changed to numerical IDs in Attachment 1 to Annex 1.
– New loudspeaker configurations I and J are added to Table 5 in Annex 3 to align with Recommendation ITU-R BS.2051-3.
– Correction of loudspeaker configuration G in Table 5 in Annex 3.

– New Annex 4 is added to specify the algorithm to measure the objective loudness of object-based audio signals or combination of channel-based and object-based audio signals.
– New informative Attachment 1 to Annex 4 is added to show differences between objective and subjective loudness depending on rendering conditions.

Draft revision of Recommendation ITU-R BS.1864-0 Doc. 3/364

Operational practices for loudness in the international exchange of digital television programmes

This revision deletes a term of "all audio channels" from *recommends* 1 to be matched with measurement for channel-based, object-based, and their combination audio programmes, and adds keywords section.

Draft revision of Recommendation ITU-R BT.1702-2 Doc. 6/365(Rev.1)

Guidance for the reduction of photosensitive epileptic seizures caused by television

This draft revision provides additional guidance to minimizing the impact that some forms of regular repetitive patterns may have on vulnerable sections of the viewing population who have photosensitive or patter-sensitive epilepsy, and who are prone to seizures being triggered.

- Regular patterning text added to the Scope
- New keyword added
- Potentially harmful flashing images text now Guideline 1
- Prolonged exposure to flashing images text moved into Guideline 1
- New Guideline 2 added describing "Potentially harmful patterns"
- New references on patterning added
- New Note 1 on possible variation advice added – following note numbering updated
- New informative Attachment 1 to Annex 1 added providing guidance on the measurement of potentially harmful patterns
- Text in Figure 1 and other text updated where relevant.

Draft revision of Recommendation ITU-R BS.2127-0 Doc. 6/371

Audio Definition Model renderer for advanced sound systems

This revision aligns the cut-off frequency of the low-frequency effects (LFE) channel to 120 Hz specified in the other ITU-R Recommendations and clarifies treatment of LFE channels.

– Cut-off frequency is changed from 200 Hz to 120 Hz in section 6.3 to be aligned with the other ITU-R Recommendations.
– Note is added to clarify how LFE channels are treated by the renderer in section 8.2.
– Python code "renderer_common.py" is also updated.

Draft revision of Recommendation ITU-R BS.1615-2 Doc. 6/375

Planning parameters for digital sound broadcasting at frequencies below 30 MHz

Recommendation ITU-R BS.1615 provides information for use by those wishing to plan and introduce digital sound broadcasting services below 30 MHz, and this update includes revision to the receiver sensitivity parameters for the Digital Radio Mondiale (DRM) sound broadcasting Service. In addition to the changes in parameters for the DRM system the revision includes a new table of contents.

The following sections of the document are modified:

- Modification of the Scope
- Addition of List of abbreviations
- Addition of Table of contents
- Addition of Related ITU Recommendations
- Attachment 1, section 3, modification of Tables 3, 4, 5, 6 containing minimum field strengths
- Attachment 1 to Annex 1 section 3, modification of receiver intrinsic noise figures to align with DRM Minimum Receiver Requirements.

Draft revision of Recommendation ITU-R BT.1775-0 Doc. 6/390

File format with editing capability, for the exchange of metadata, audio, video, data essence and ancillary data for use in broadcasting

This revision is to update the information provided in Annexes 1 and 2 on the standards for the file format and generic container related to the Material Exchange Format (MXF) for the interchange of audio-visual material.

While references to the current versions of these standards are provided, it should be noted that further revisions are in progress and that a public Advisory Note is available.

Draft revision of Recommendation ITU-R BT.2074-1 Doc. 6/393(Rev.1)

Service configuration, media transport protocol, and signalling information for MMT-based broadcasting systems

This revision is to include Smart Media Transport (SMT) specified in China, which is an extension of MPEG Media Transport (MMT) by using extension methods while preserving the basic architecture of MMT.

Annex 2

ITU-R Recommendations proposed for suppression

(Source: Documents 6/369, 6/386 and 6/399)

Recommendation ITU-R	Title
BS.1596-0	Guide to ITU-R Recommendations for broadcast sound production
BS.1734-0	Basic performance requirements for the sound components of large-screen digital imagery applications for presentation in a theatrical environment
BS.2019-0	Audio system for the production and international exchange of 3DTV programmes for broadcasting
BT.1119-2	Wide-screen signalling for broadcasting (Signalling for wide-screen and other enhanced television parameters)
BT.1198-0	Stereoscopic television based on R-and L-eye two channel signals
BT.1439-1	Measurement methods applicable in the analogue television studio and the overall analogue television system
BT.1562-0	Consistency in the alignment of displays in production rooms and control rooms
BT.1664-0	Representation of various image aspect ratios into the image of large screen digital imagery applications that use a 16:9 raster
BT.1665-0	Considerations for colour encoding and spatial resolution for large screen digital imagery display
BT.1680-1	Baseband imaging format for distribution of large screen digital imagery applications intended for presentation in a theatrical environment
BT.1689-0	Guidelines on the presentation in large-screen digital imagery environments of programmes that are provided in image formats conforming to Recommendation ITU-R BT.601
BT.1690-0	Assumed characteristics of venues intended for large-screen digital imagery programme presentation in a theatrical environment
BT.1692-1	Optimization of the quality of colour reproduction in digital television
BT.1721-0	Objective measurement of perceptual image quality of large screen digital imagery applications for theatrical presentation
BT.1728-1	Guidance on the use of flat panel displays in television production and postproduction
BT.1789-0	A method to reconstruct received video using transmission error information for packet video transmission
BT.2024-0	HDTV digital image systems for the production and international exchange of 3DTV programmes for broadcasting
BT.2025-0	1280 × 720 digital image systems for the production and international exchange of 3DTV programmes for broadcasting
BT.2050-0	Use of UHDTV image systems for capturing, editing, finishing and archiving high-quality HDTV programmes
BS.1661-0	'Signal-on-the-air' specifications of the digital system described in annex 1 to recommendation ITU-R BS.1514 for digital sound broadcasting in the broadcasting bands below 30 MHz
BT.1125-0	Basic objectives for the planning and implementation of digital terrestrial television broadcasting systems
BT.1299-1	The basic elements of a worldwide common family of systems for digital terrestrial television broadcasting

Recommendation ITU-R	Title
BT.1727-0	Terrestrial and satellite delivery of programme material to large screen digital imagery venues
BT.1199-1	Bit-rate reduction in the HDTV studio environment
BT.1577-0	Serial digital interface-based transport interface for compressed television signals in networked television production based on Recommendation ITU-R BT.1120
BT.1687-1	Video bit-rate reduction for real-time distribution of large-screen digital imagery applications for presentation in a theatrical environment
BT.1737-0	Use of the ITU-T Recommendation H.264 (MPEG 4/AVC) video source-coding method to transport high definition TV programme material
BT.2000-0	Use of large screen digital imagery Recommendations in video information systems applications
BT.2026-0	Guidelines on the implementation of systems for in-service objective measurement and monitoring of "perceptual transparency" for the distribution chain of SDTV and HDTV programmes
BT.2027-0	Serial Digital Interface for production and international exchange of HDTV 3DTV programmes
BT.2038-0	Transport of HDTV 3DTV programmes for international programme exchange in broadcasting
BT.1435-0	Digital sound and television broadcasting interaction channel through the PSTN/ISDN
BT.1507-0	Interaction channel using digital enhanced cordless telecommunications (DECT) system
BT.1508-0	Interaction channel using global system for mobile communications (GSM)
BT.1549-0	Data link protocol for interaction channel
BT.1564-0	Interaction channel using local multipoint distribution systems
BT.1667-0	Terrestrial return channel for interactive broadcasting services operating in the VHF/UHF broadcast band based on Recommendation ITU-R BT.1306
BT.1832-0	Digital Video Broadcast-Return Channel Terrestrial (DVB-RCT) deployment scenarios and planning considerations
BS.1688-0	Baseband sound system and audio source-coding at delivery interfaces of large-screen digital imagery applications

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