INTERNATIONAL TELECOMMUNICATION UNION

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Administrative Circular **CAR/307**	8 December 2010

To Administrations of Member States of the ITU

Subject: **Radiocommunication Study Group 6**

– **Proposed adoption of 5 draft new Recommendations and 10 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)**

At the meeting of Radiocommunication Study Group 6, held on 28 and 29 October 2010, the Study Group decided to seek adoption of 5 draft new Recommendations and 10 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 the Annex.

The consideration period shall extend for 3 months ending on 8 March 2011. 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. 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.

Valery Timofeev
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Annex: Titles and summaries of the draft Recommendations

Documents attached: Documents 6/269(Rev.1), 6/275(Rev.1), 6/290(Rev.1), 6/309(Rev.1), 6/310(Rev.1), 6/270(Rev.1), 6/272(Rev.1), 6/278(Rev.1), 6/288(Rev.1), 6/293(Rev.1), 6/295(Rev.1), 6/296(Rev.1), 6/298(Rev.1), 6/308(Rev.1), 6/312(Rev.1) on CD-ROM

Distribution:
– Administrations of Member States of the ITU
– Radiommunication Sector Members participating in the work of Radiocommunication Study Group 6
– ITU-R Associates participating in the work of Radiocommunication Study Group 6

Annex

Titles and summaries of the draft Recommendations

Draft new Recommendation ITU-R BT.[SDTVRR]   Doc. 6/269(Rev.1)

Objective perceptual video quality measurement techniques for standard definition digital broadcast television in the presence of a reduced bandwidth reference

This Recommendation describes three methods for objective video quality measurements for standard definition digital broadcast television in the presence of a reduced bandwidth reference. These methods provide equivalent results and they can be used for video quality monitoring and the perceptual quality measurement of the end user.

Draft new Recommendation ITU-R BT.[EOTF]   Doc. 6/275(Rev.1)

Reference Electro-Optical Transfer Function (EOTF) for flat panel displays used in HDTV studio production

Historically, Cathode Ray Tube (CRT) displays have been used as the reference display in programme production and monitoring for many years. Displays based on different physical technology are now employed for programme production and monitoring. It is important to specify the characteristics for this next generation of displays so that consistent results may be achieved in future programme production. It is useful for the EOTF specified for the new display to reasonably match the EOTF of the legacy CRT monitor. However, the legacy CRT EOTF was never precisely documented, as all CRTs naturally behaved similarly. This new Recommendation specifies a reference electro-optical transfer function that should be followed by a display used in HDTV programme production. Displays that follow this Recommendation will exhibit images similar to those that were seen on the legacy CRT. This Recommendation does NOT change any signal parameters defined in Recommendation ITU-R BT.709; moreover no legacy installations are impacted.

Draft new Recommendation ITU-R BT.[IPM2TS]   Doc. 6/290(Rev.1)

Carriage of IP packets in MPEG-2 transport streams in multimedia broadcasting

This draft new Recommendation specifies methods to carry IP packets in MPEG-2 transport stream multimedia broadcasting. The methods specified in this Recommendation are encapsulation of IP packets into a private stream and a section of MPEG-2 transport stream, which enable carriage of IP packets over existing MPEG-2 based systems.

Draft new Recommendation ITU-R BT.[FBSS]   Doc. 6/309(Rev.1)

Basic elements of file-based broadcasting systems

This draft new Recommendation describes file-based broadcasting systems. A file-based broadcasting system is a broadcasting system where content is delivered as files in both real-time and non real-time transfers. The data delivered to the end user device provides the end user with the ability to view the stored material at any convenient time. This Recommendation describes the requirements of the system and basic elements including receiver configuration for the system, metadata, and a file transport method over a broadcast channel. An implementation example is also described in the Appendix for information.

Draft new Recommendation ITU-R BT.[APPENV]   Doc. 6/310(Rev.1)

Common application environment for interactive digital broadcasting services

This Recommendation defines the structure, origins and specification sources for a harmonized environment including a set of Application Programming Interfaces (APIs) for interactive television services.

Draft revision of Recommendation ITU-R BT.601-6   Doc. 6/270(Rev.1)

Studio encoding parameters of digital television for standard 4:3 and wide screen 16:9 aspect ratios

This revision provides an editorial clarification on the colorimetry specifications contained in it and explicitly specifies the method to derive the integer coefficients of luminance and colour difference equations.

Draft revision of Recommendation ITU-R BS.1770-1   Doc. 6/272(Rev.1)

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

This revision is to include a 'gating function' to remove silent or quiet sections from the measurement leading to a more accurate estimate of perceived loudness.

Draft revision of Recommendation ITU-R BR.1384-1   Doc. 6/278(Rev.1)

Parameters for international exchange of multi-channel sound recordings with or without accompanying picture

This revision is intended to address advancements in operating practices for the recording of signals on 12 track recording equipment which is now in common use.

Draft revision of Recommendation ITU-R BT.1122-1   Doc. 6/288(Rev.1)

User requirements for codecs for emission and secondary distribution systems for SDTV and HDTV

Study Group 6 has produced a series of Recommendations on user requirements for digital transmission systems as summarized below.

Rec. ITU-R	Scope	Note
BS.1548	Requirements for audio coding for contribution, distribution, and emission	
BT.1122	Requirements for emission and secondary distribution	Many "to-be-specified" items, mainly for audio aspects.
BT.1203	Requirements for video coding for end-to-end system	Reference to Recs. ITU-R BT.800*, ITU-R BT.1121*, ITU-R BT.1122, and ITU-R BT.1205* for picture quality requirements.
BT.1868	Requirements for contribution, primary distribution, and SNG	Reference to BS.1548 for audio quality requirement.

   * Recommendation ITU-R BT.1868 has superseded Rec. ITU-R BT.800, ITU-R BT.1121, and ITU-R BT.1205.

While requirements have been set for a number of items, quality requirements for video and sound are the keys to ensuring high quality broadcasting. This revision updates outdated information. No technical changes have been made. Three *notings* have been added to add clarification to the intent of the Revision.

Draft revision of Recommendation ITU-R BS.647-2   Doc. 6/293(Rev.1)

A digital audio interface for broadcasting studios

This revision is to restructure all the former specifications in order to harmonize them with those of other Standards Organizations and to include interface jitter specifications and additional definitions of channel status content such as "double sampling frequency mode", "multichannel mode" and "indication of alignment level". Backwards compatibility with existing implementations is maintained.

Draft revision of Recommendation ITU-R BT.1563   Doc. 6/295(Rev.1)

Data encoding protocol using key-length-value

This revision of is to bring the Recommendation into line with that of other SDO's. Compatibility with existing implementations is maintained.

Draft revision of Recommendation ITU-R BT.1618   Doc. 6/296(Rev.1)

Data structure for DV-based audio, data and compressed video at data rates of 25 and 50 Mbit/s

This revision is to bring the Recommendation into line with that of other SDO's. Corrections to some chart values, updating of references, and clarification of text has been incorporated. Compatibility with existing implementations is maintained. While all text was replaced there were NO new technical features or functionality incorporated. A scope was added.

Draft revision of Recommendation ITU-R BT.1306-4   Doc. 6/298(Rev.1)

Error-correction, data framing, modulation and emission methods for digital terrestrial television broadcasting

This revision updates some values as well as the description related to System C in Table 1c) of Annex 1. Amendments include:

−   update of some values in Item 8 (carrier spacing);

−   update of some values in Item 10 (overall symbol duration);

−   completion of the description in Item 13 (inner interleaving).

Draft revision of Recommendation ITU-R BT.1722-1   Doc. 6/308(Rev.1)

Harmonization of instruction set for the execution engine for interactive TV applications

This Recommendation defines APIs, semantic guarantees and system aspects of platform behaviour for harmonized procedural content formats for interactive TV applications.

This revision is to harmonize the specifications with a wider variety of standards, including GEM 1.2.2, ARIB-J, GINGA-J, DVB-MHP, ACAP and OCAP. To achieve this, the common core defined in this Recommendation consists of two sets of APIs; one related to core Java technology and another for broadcast extension to conform to either DVB-GEM from which several standards are derived, or JavaDTV specification which is the core of GINGA-J and is functionally equivalent to DVB-GEM. Additional APIs specific to each of those standards listed above are included for information in the appendices, which are not included in the harmonized common core.

Broadcasting of multimedia and data applications
for mobile reception by handheld receivers

This revision includes the addition of DVB-SH (Satellite services to handheld devices) and ATSC Mobile DTV as Multimedia System "I" and Multimedia System "B", respectively. DVB-SH comprises a terrestrial component and a satellite component. Some updates for the Multimedia Systems "A", "C", and "F" of Recommendation ITU-R BT.1833 are also included.

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