



Radiocommunication Bureau (BR)

Administrative Circular
CACE/803

20 April 2017

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 approval of 1 draft new ITU-R Question**

At the meeting of Radiocommunication Study Group 6 held on 31 March 2017, 1 draft new ITU-R Question was adopted according to Resolution ITU-R 1-7 (§ A2.5.2.2) and it was agreed to apply the procedure of Resolution ITU-R 1-7 (see § A2.5.2.3) for approval of Questions in the interval between Radiocommunication Assemblies. The text of the draft ITU-R Question is attached for your reference in the Annex to this letter. Any Member State who objects to the approval of a draft Question is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

Having regard to the provisions of § A2.5.2.3 of Resolution ITU-R 1-7, Member States are requested to inform the Secretariat (brsgd@itu.int) by 20 June 2017, whether they approve or do not approve the proposal above.

After the above-mentioned deadline, the results of this consultation will be announced in an Administrative Circular and the approved Question will be published as soon as practicable (see: <http://www.itu.int/ITU-R/go/que-rsg6/en>).



François Rancy
Director

Annex: 1 draft new ITU-R Question

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

(Document [6/116\(Rev.1\)](#))

DRAFT NEW QUESTION ITU-R [AIAV]/6

Advanced Immersive Audio-Visual Systems for Programme Production and Exchange for Broadcasting

The ITU Radiocommunication Assembly,

considering

- a)* that Virtual Reality, 360° and other immersive media technologies have caught the attention of the content providers, audiences, and the associated consumer technology vendors;
- b)* that television and radio programme makers and others are exploring advanced immersive systems to enhance the audiences experience of their content;
- c)* that currently immersive media content is usually acquired and produced to the requirements of specific delivery or distribution technologies;
- d)* that there are currently no worldwide standards or recommended practices for production, mastering and exchange of Virtual Reality, 360° and other immersive television programmes;
- e)* that likewise there are currently no worldwide standards or recommended practices for distribution and emission of Virtual Reality, 360° and other immersive television programmes;
- f)* that there are no agreed measures or means to assess the quality of the images and associated audio of advanced immersive audio-visual content;
- g)* that there are no criteria for assessing if the “Quality of Experience” expectations of the intended audience of advanced immersive audio-visual content, are being met;
- h)* that broadcasters are distributing programme content to audiences via an increasing number of interactive delivery platforms;
- i)* that viewers have documented an experience of eye fatigue, dizziness, or nausea in viewing of some Virtual Reality or Augmented Reality content, and device performance parameters, viewing time, and content type may all influence these undesired reactions,

decides that the following Questions should be studied

- 1 What are the appropriate parameters for production and international exchange of advanced immersive audio-visual content?
- 2 What viewing and listening conditions including audio-visual displays should be assumed for viewing of advanced immersive audio-visual content in production and consumer viewing?
- 3 What file formats and wrappers are appropriate for the mastering, exchanging, and archiving of advanced immersive audio-visual content?

- 4 What assessment techniques and criteria are required in order to assess accurately the quality of advanced immersive audio-visual content?
- 5 What criteria are required to assess if the “Quality of Experience” expectations of the intended audience of advanced immersive audio-visual content, are being met?
- 6 What metadata is required to allow accurate exchange and reproduction of advanced immersive audio-visual content?
- 7 How do device performance parameters interact with production decisions to avoid or minimize eye fatigue, dizziness, or nausea in audiences when viewing advanced immersive audio-visual content?

further decides

- 1 that the results of the above studies should be included in Recommendation(s) and Reports;
- 2 that the above studies should be completed by 2019.

Category: S2
