

Recommendation ITU-R BT.1833-5

(05/2023)

BT Series: Broadcasting service (television)

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

Foreword

The role of the Radiocommunication Sector is to ensure the rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services, including satellite services, and carry out studies without limit of frequency range on the basis of which Recommendations are adopted.

The regulatory and policy functions of the Radiocommunication Sector are performed by World and Regional Radiocommunication Conferences and Radiocommunication Assemblies supported by Study Groups.

Policy on Intellectual Property Right (IPR)

ITU-R policy on IPR is described in the Common Patent Policy for ITU-T/ITU-R/ISO/IEC referenced in Resolution ITU-R 1. Forms to be used for the submission of patent statements and licensing declarations by patent holders are available from <http://www.itu.int/ITU-R/go/patents/en> where the Guidelines for Implementation of the Common Patent Policy for ITU-T/ITU-R/ISO/IEC and the ITU-R patent information database can also be found.

Series of ITU-R Recommendations

(Also available online at <https://www.itu.int/publ/R-REC/en>)

Series	Title
BO	Satellite delivery
BR	Recording for production, archival and play-out; film for television
BS	Broadcasting service (sound)
BT	Broadcasting service (television)
F	Fixed service
M	Mobile, radiodetermination, amateur and related satellite services
P	Radiowave propagation
RA	Radio astronomy
RS	Remote sensing systems
S	Fixed-satellite service
SA	Space applications and meteorology
SF	Frequency sharing and coordination between fixed-satellite and fixed service systems
SM	Spectrum management
SNG	Satellite news gathering
TF	Time signals and frequency standards emissions
V	Vocabulary and related subjects

Note: This ITU-R Recommendation was approved in English under the procedure detailed in Resolution ITU-R 1.

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RECOMMENDATION ITU-R BT.1833-5¹**Broadcasting of multimedia and data applications for mobile reception
by handheld receivers²**

(Question ITU-R 45/6)

(2007-2011-2012-2014-2022-2023)

Scope

This Recommendation provides an answer to the specific objectives of Question ITU-R 45/6 in order to guide administrations, as well as the broadcasting and radiocommunication industries, in the development of mobile broadcasting multimedia and data solutions. The scope of this Recommendation deals with the special aspects of end user requirements for handheld receivers.

The ITU Radiocommunication Assembly,

considering

- a) that digital television and sound broadcasting systems have been implemented in many countries and will be introduced in many more in the coming years;
- b) that multimedia and data broadcasting services have been introduced, or are planned to be introduced, using the inherent capability of digital broadcasting systems;
- c) that mobile telecommunication systems with advanced information technologies are planned to be implemented in some countries, and will be implemented in other countries in the near future;
- d) that the characteristics of mobile reception are quite different from the fixed reception cases;
- e) that digital broadcasting services are expected to be offered in a variety of reception environments including those aimed at indoor, portable, handheld and vehicular receivers;
- f) that the display sizes and receiver capabilities of handheld, portable and vehicular receivers are different from those of fixed receivers;
- g) that a special case of mobile reception by handheld receivers requires specific technical characteristics;
- h) the need for interoperability between the mobile telecommunication services and interactive digital broadcasting services;
- i) the need for technical methods to ensure cyber security and conditional access solutions,

noting

- a) that there are telecommunication systems not explicitly dedicated to broadcasting services, such as Multimedia Broadcast/Multicast Services (MBMS) that fulfil the requirements for interoperability between mobile telecommunication services and interactive digital broadcasting services;

¹ This Recommendation should be brought to the attention of Radiocommunication Study Group 4.

² This Recommendation is a part of the family of Recommendations and Reports on Multimedia Broadcasting.