



Recommendation ITU-R BT.1889
(03/2011)

**Common application environment for
interactive digital broadcasting services**

BT Series
Broadcasting service
(television)



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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 Annex 1 of 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 <http://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.1889¹**Common application environment for interactive digital broadcasting services**

(Question ITU-R 131/6)

(2011)

Scope

This Recommendation specifies a common application environment to be used for interactive digital broadcasting services.

The ITU Radiocommunication Assembly,

considering

- a) the need to avoid protocols proliferating for interactive multimedia services;
- b) that digital broadcasting services (satellite, terrestrial, and cable) are becoming widely available and offer multimedia applications;
- c) that multimedia applications have been developed that comprise video, audio, still picture, text, graphics, etc. associated with interactive features;
- d) that multimedia applications planned or deployed in some regions are using the executable application environment as described in Recommendation ITU-R BT.1722;
- e) that multimedia applications planned or deployed in some regions are using the declarative application environment as described in Recommendation ITU-R BT.1699;
- f) that Recommendation ITU-T J.200 defines the worldwide common core of application environment for digital interactive television services;
- g) that the ITU-R and ITU-T Sectors are continuously working and reviewing Application Programming Interfaces (APIs);
- h) that common application environment for interactive TV applications is desirable for production and international exchange of multimedia content,

recommends

- 1** that Recommendation ITU-T J.200 should be used as the application environment for interactive digital broadcasting services.

NOTE 1 – Appendix of this Recommendation summarizes Recommendation ITU-T J.200 for information.

¹ This Recommendation should be brought to the attention of ITU-T Study Group 9.