



Recommendation ITU-R BT.2053-0
(02/2014)

**Technical requirements for integrated
broadcast-broadband systems**

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.

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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.

Electronic Publication
Geneva, 2014

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RECOMMENDATION ITU-R BT.2053-0

Technical requirements for integrated broadcast-broadband systems*

(2014)

Scope

This Recommendation defines technical requirements for integrated broadcast-broadband systems; intended to harmonize the behaviour and the interaction of a variety of types of applications by broadcast delivery, broadband delivery, pre-installed, via application repository, and home area network delivery.

The ITU Radiocommunication Assembly,

considering

- a) that devices with broadband Internet access are becoming widely available and offer multimedia applications;
- b) that being able to provide connected TV enabled devices with already integrated off-the-shelf applications is of relevance to the end-user;
- c) that the addition of broadband delivery content to the broadcast channel optimizes the bandwidth usage of the transport streams;
- d) that common platforms are desirable for production and international exchange of hybrid broadcast and broadband content;
- e) that a unified platform would allow simplifying and reducing the development effort of hybrid content and applications;
- f) that Recommendation ITU-R BT.1889 refers to Recommendation ITU-T J.200 that defines the high-level architecture for a harmonized set of interactive instruction sets and application programming interfaces (APIs) and identifies the structure of application environment comprising the executable application environment and the declarative application environment for digital television services;
- g) that Recommendation ITU-R BT.2037 states general requirements of integrated broadcast-broadband (IBB) systems and Report ITU-R BT.2267 contains various information on IBB systems,

recommends

that Recommendation ITU-T J.205 (2012) Corrigendum 1 (01/2013) – Requirements for an application control framework using integrated broadcast and broadband digital television should be taken into account when specifying IBB systems.¹

* This Recommendation is a part of the family of Recommendations and Reports on IBB systems.

¹ Recommendation ITU-T J.205 refers to three ITU-T J.200-series Recommendations. The corresponding ITU-R Recommendations in the BT-series are listed below.

Recommendation ITU-T J.200 (2010)	Recommendation ITU-R BT.1889
Recommendation ITU-T J.201 (2009)	Recommendation ITU-R BT.1699-2
Recommendation ITU-T J.202 (2010)	Recommendation ITU-R BT.1722-2