



Recommendation ITU-R BT.1872-3
(10/2019)

**User requirements for broadcast auxiliary
services including digital television outside
broadcast, electronic/satellite news
gathering and electronic field production**

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 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.1872-3

User requirements for broadcast auxiliary services including digital television outside broadcast, electronic/satellite news gathering and electronic field production

(2010-2017-01/2019-10/2019)

Scope

This Recommendation deals with user requirements for broadcast auxiliary services (BAS). It contains typical operational requirements for digital TVOB, ENG/SNG and EFP, which may be used by administrations when planning usage of their fixed and mobile TVOB, ENG and EFP applications.

Keywords

BAS, EFP, ENG, SAP, TVOB

The ITU Radiocommunication Assembly,

considering

- a)* that electronic news gathering (ENG), television outside broadcast (TVOB) and electronic field production (EFP) are more generically referred to as services ancillary to programme (SAP) making and broadcast auxiliary services (BAS);
- b)* that some administrations have implemented television SAP/BAS applications in SDTV and HDTV modes which have varying bandwidth requirements;
- c)* that SAP/BAS applications are required to operate in many parts of the world, and in locations where events of national, regional and international importance may occur;
- d)* that coverage produced by SAP/BAS applications must be delivered to the appropriate network facility, which is often remote from the area where the BAS applications operate;
- e)* that delivery of SAP/BAS coverage may be effected, depending on circumstances:
 - by physical delivery of recorded media;
 - by transmission of the signal over portable microwave links; and
 - by injection of the signal in a switched telecommunication network;
- f)* that the user requirements specific to SAP/BAS operations in terms of:
 - received picture quality;
 - received sound quality;
 - number of sound channels;
 - transmission channel bandwidth and reliability;
 - equipment size and weight; and
 - talkback facilities, etc.,

are often different from those that apply to normal sound and television broadcasting contribution transmissions, and they are often specific to the operating environment of SAP/BAS in a serviced or originating administration;