

QUESTION ITU-R 130/6

Digital interfaces for production and post-production applications in broadcasting systems

(2009)

The ITU Radiocommunication Assembly,

considering

- a) that the practical implementation of television and sound production requires definition of the details of various studio interfaces and the data streams traversing them;
- b) that ITU-R has established Recommendations on digital interfaces for SDTV and HDTV, in parallel and serial forms, for electrical and optical cables;
- c) that ITU-R has also established Recommendations on digital audio interfaces;
- d) that ITU-R has been studying video formats with higher definition than HDTV and multichannel sound systems, which require higher data rate interfaces;
- e) that programme content and related data can be transferred either as a continuous stream or in the form of packets;
- f) that increased performance of IP networks has made it possible for broadcasters to introduce networked broadcasting systems for production and post-production inside and between broadcasting stations;
- g) that networked production and post-production systems should be constructed from interoperable pieces of equipment having standardized common interfaces and control protocols;
- h) that the transport mechanism should operate independently of the type of payload;
- j) that specifications should cover the possibility of conveying sound or any other ancillary signals through the interface, taking into account the original source timing;
- k) that for operational and economic reasons it is desirable to investigate whether the specification should also cover the possibility to use the same interface to transport the various image formats given in ITU-R Recommendations;
- l) that digital television and sound signals produced by these interfaces may be a potential source of interference to other services and due notice must be taken of No. 4.22 of the Radio Regulations,

decides that the following Questions should be studied

- 1 What parameters are necessary to define specified digital interfaces for the signal sets covered by ITU-R Recommendations?
- 2 What parameters are necessary to define compatible optical fibre digital interfaces?
- 3 What transport and control protocols are necessary to define interfaces for networked production and post-production systems?
- 4 What ancillary signals are required to be carried across the interfaces with the video signals, and what are the parameters necessary to define specifications for these signals?
- 5 What provisions are required for the associated digital sound channels?
- 6 What are the parameters that should be specified to use the same interface to also transport the various payloads given in ITU-R Recommendations?

NOTE 1 – See Recommendations ITU-R BT.709, ITU-R BT.601, ITU-R BT.656, ITU-R BT.799, ITU-R BT.1120 and Report ITU-R BT.2003,

further decides

- 1 that the results of the above studies should be included in (a) Report(s) and/or Recommendation(s);
- 2 that the above studies should be completed by 2011.

Category: S2