

QUESTION ITU-R 96-1/6

User requirements in the area of media asset management and transfer protocols for television programme production, recording and archiving

(1997-1999-2006)

The ITU Radiocommunication Assembly,

considering

- a) that programme content can be transferred either as a continuous stream or in the form of discontinuous files between different production and storage devices;
- b) that such data can be transferred through local and wide area networks;
- c) that all transfers require a number of operations to identify the source and destination of the file or stream;
- d) that issues of file management, transfer protocols and data interconnection must therefore be considered in television programme production, recording and archiving;
- e) that common machine control interfaces are required to enable users to switch easily between production and storage devices of different suppliers,

decides that the following Question should be studied

1 Which user requirements apply to the file formats required for guaranteed and bounded (see Note 1) quality transfer?

2 Which user requirements apply to the link protocols employed (protocols for different classes of service, transfer mode commands, transfer initiation commands, transfer phase commands, the format of data being interchanged, number of bits per element, type of encoding scheme, synchronization information)?

3 Which user requirements apply to methods used to enable flow control (flow of data between two devices, avoidance of overflow of storage at the recorder, etc.):

- to error detection and control;
- to inter-layer commands;
- to machine controls; and
- to platform independent command sets for file management?

further decides

- 1 that the results of the above studies should be included in (a) Recommendation(s);
- 2 that the above studies should be completed by 2008.

NOTE 1 – The term “Bounded quality” is used for a transfer method that is designed to move the payload from source to destination(s) but without the absolute certainty of true guaranteed delivery. Traditional analog video is moved with bounded quality in an “asset play” method today. Also, payload data that is moved over the serial digital interface specified in Recommendation ITU-R BT.656 is moved in a bounded quality way. Usually, bounded-quality links are used to transport streamed, real-time content. “Guaranteed delivery” indicates that the entire payload will reach the destination without bit errors, barring a failure of the physical link.

Category: S2