

QUESTION ITU-R 29/6

Transmission of supplementary information with a single transmitter in frequency-modulation sound broadcasting

(1990-2002)

The ITU Radiocommunication Assembly,

considering

- a) that the broadcasting with a single transmitter of information supplementary to the sound programmes is technically feasible, particularly through the use of digital signals modulating a sub-carrier;
- b) that the use of many types of supplementary information for various applications can be foreseen;
- c) that the transmission of such information with no direct relationship to the main programme can be accomplished by such techniques;
- d) that it is desirable to encourage development of compatible or possibly common systems;
- e) that Recommendation ITU-R BS.643 specifies a “system for automating tuning and other applications in FM radio receivers for use with the pilot tone system”,

decides that the following Question should be studied

- 1 What are the applications that can be envisaged?
- 2 What are the minimum demands on the transmission channel for these applications, e.g. information rate, access time, coverage compared with that of the monophonic service, acceptable loss- and error-ratios?
- 3 What are the possibilities of using the same transmission channel for future applications?
- 4 What transmission systems satisfy the preceding minimum demands, in particular, what is the frequency of sub-carrier, type of modulation, information rate, digital frame structure, error-detecting and/or correcting systems, sensitivity to the content of the main programme and to the reception conditions?
- 5 What compatibility with existing broadcasting services can be achieved?
- 6 What information and method of presentation of some of the undefined groups in an RDS system can be recommended with regard to applications such as text and graphic transmission?

NOTE 1 – See Recommendations ITU-R BS.643, ITU-R BS.1194 and ITU-R BS.1350,

further decides

- 1 that the results of the above studies should be addressed to:
 - update and complement Recommendations ITU-R BS.643 and ITU-R BS.1350;
 - prepare (a) new Recommendation(s);

2 that the above studies should be completed by 2005.

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