

Recommendation R79-1994
Recommended system for digital sound broadcasting
to mobile, portable and fixed receivers
in the appropriate frequency bands in the range 30 MHz to 3 GHz

<i>EBU Committee</i>	<i>First issued</i>	<i>Revised</i>	<i>Re-issued</i>
BMC	1994		

Keywords: Digital Audio Broadcasting (DAB)

The EBU, *considering:*

- a) the extensive studies undertaken by the EBU Technical Committee on:
 - the requirements for digital sound broadcasting to mobile, portable and fixed receivers;
 - the ability of the various published systems to meet the above-mentioned requirements;
- b) that the extensive study and performance evaluation of the Eureka 147 DAB system (also referred to as ITU-R Digital System A), indicate that it is the only system available for operational services in the foreseeable future which meets the EBU requirements;
- c) that the Eureka 147 DAB system is in the process of European standardization within ETSI, and the draft Standard has been published [1];
- d) that the Eureka 147 DAB system is acknowledged by the ITU Radiocommunication Sector to be the only system currently studied to meet fully the ITU requirements for a digital sound broadcasting system, as set out in ITU-R Recommendations BS.774 [2] and BO.789 [3] for terrestrial and satellite broadcasting, respectively;
- e) that the Inter-Union Technical Committee of the 7th World Conference of Broadcasting Unions recommended ITU-R Digital System A for both satellite and terrestrial broadcasting to vehicular, portable and fixed receivers;
- f) that the Eureka 147 DAB system is the subject of a draft ITU-R Recommendation for use with both terrestrial and satellite sound broadcasting to mobile, portable and fixed receivers;
- g) that experimental DAB networks are in successful operation in a number of European countries and in Canada;
- h) that joint efforts of European industry have led to the development of a set of integrated circuits enabling the realization of consumer DAB receivers by 1995;

recommends:

- that broadcasters wishing to introduce new digital sound broadcasting services to mobile, portable and fixed receivers by terrestrial or satellite delivery, in the appropriate frequency bands between 30 MHz and 3 GHz, should use the Eureka 147 Digital Audio Broadcasting system [1].

Bibliography

- [1] European Telecommunication Standard ETS 300 401: **Radio broadcast systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers**
 - [2] ITU-R Recommendation BS.774: **Digital sound broadcasting to vehicular, portable and fixed receivers using terrestrial transmitters in the VHF/UHF bands.**
 - [3] ITU-R Recommendation BO.789: **Digital sound broadcasting to vehicular, portable and fixed receivers for BSS (sound) in the frequency range 500-3000 MHz.**
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