

## QUESTION ITU-R 209-1/1\*

### **Parameters of radio systems and equipment required for spectrum management and the efficient use of the radio spectrum**

(1995-2004)

The ITU Radiocommunication Assembly,

*considering*

- a) that many new systems and networks require access to the radio spectrum due to the rapid development of telecommunications;
- b) that it is necessary to undertake detailed compatibility studies to ensure an acceptable level of compatibility between new systems and existing systems operating in the same or other parts of the radio frequency spectrum;
- c) that if new radiocommunication systems are designed and improvements are made to the design of existing systems taking into account efficient use of the spectrum, the opportunities to introduce new systems will be increased;
- d) that many technical parameters of radiocommunication systems and equipment are used in studies of compatibility and assessment of spectrum efficiency, together with other factors such as operational characteristics, density of use and probability of worse case interference scenarios occurring;
- e) that these studies result in the determination of minimum limit values for such technical parameters;
- f) that these limit values are often specified in the ITU Radio Regulations (RR), ITU-R Recommendations or national standards;
- g) that it is necessary to achieve an acceptable balance between these limit values used for compatibility and spectrum efficiency on the one hand and the complexity of system and equipment design and production cost on the other hand;
- h) that there are other system parameters related to quality of service and user or manufacturer preference that are not directly related to compatibility or spectrum efficiency,

*noting*

- a) that Recommendation ITU-R SM.1413 Radiocommunication Data Dictionary (RDD) is to be used to supplement Appendix 4 of the RR for facilitating the advanced publication, coordination and notification processes of frequency assignments with the ITU Radiocommunication Bureau and in the coordination processes between administrations,

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\* In the year 2009, Radiocommunication Study Group 1 extended the completion date of studies for this Question.

*decides* that the following Question should be studied

- 1 What are the additional parameters to those contained in Appendix 4 of the RR of different categories of radiocommunication systems and equipment which are essential to be specified in order to ensure compatibility and spectrum efficiency on a national level?
- 2 What factors should be taken into account when setting the limit values for these parameters?

*further decides*

- 1 that the results of the above studies should be included in (a) Recommendation(s) and/or Report;
- 2 that the above studies should be completed by 2010.

Category: S2