

RECOMMENDATION 76 (WRC-12)

Deployment and use of cognitive radio systems

The World Radiocommunication Conference (Geneva, 2012),

considering

- a)* that a cognitive radio system (CRS) is defined as *a radio system employing technology that allows the system to obtain knowledge of its operational and geographical environment, established policies and its internal state; to dynamically and autonomously adjust its operational parameters and protocols according to its obtained knowledge in order to achieve predefined objectives; and to learn from the results obtained* (Report ITU-R SM.2152);
- b)* that a method of spectrum management to be used for aiding frequency assignment for terrestrial services in border areas can be found in Recommendation ITU-R SM.1049;
- c)* that ITU-R is studying the implementation and use of CRS in accordance with Resolution ITU-R 58;
- d)* that studies on regulatory measures related to the implementation of CRS are outside the scope of Resolution ITU-R 58;
- e)* that there are plans to deploy CRS in some radiocommunication services,

recognizing

- a)* that any radio system implementing CRS technology needs to operate in accordance with the provisions of the Radio Regulations;
- b)* that the use of CRS does not exempt administrations from their obligations with regard to the protection of stations of other administrations operating in accordance with the Radio Regulations;
- c)* that CRSs are expected to provide flexibility and improved efficiency to overall spectrum use,

recommends

that administrations participate actively in the ITU-R studies conducted under Resolution ITU-R 58, taking into account *recognizing a) and b)*.