QUESTION ITU-R 230-3/5

Software-defined radios

(2000-2003-2007-2012)

The ITU Radiocommunication Assembly,

considering

*a)* that considerable research and development has been done on software-defined radio (SDR) design;

*b)* that SDRs may offer design and operational versatility and flexibility in mobile radio systems;

*c)* that SDRs may facilitate spectrum efficiencies in complex mobile radio configurations;

*d)* that SDRs offer intersystem interoperability in disaster and emergency situations;

*e)* that SDRs may facilitate the regional and global harmonization of wireless communications;

*f)* that SDRs may provide for improve manufacturing economies of scale;

*g)* that SDR design can provide users with more operational features;

*h)* that Report ITU-R SM.2152 contains the ITU-R definition for SDR;

*j*) that Recommendations on SDR design would be complementary to other ITU-R Recommendations on mobile telecommunications,

decides that the following Questions should be studied

1What are the key technical characteristics that are associated with the design and application of SDR?

2What frequency band considerations are important to the application of SDR?

3What special interference considerations may be required in SDR applications?

4What are the operational implications of SDR to mobile radio systems?

5 What technical considerations are necessary to insure conformance with ITU Recommendations and Radio Regulations?

further decides

1that the results of the above studies should be included in one or more Recommendations, Reports, or Handbooks;

2that the above studies should be completed by the year 2015.

Category: S2