

RESOLUTION 761 (WRC-15)

Compatibility of International Mobile Telecommunications and broadcasting-satellite service (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3

The World Radiocommunication Conference (Geneva, 2015),

noting

- a) Recommendation ITU-R M.1459, “Protection criteria for telemetry systems in the aeronautical mobile service and mitigation techniques to facilitate sharing with geostationary broadcasting-satellite and mobile-satellite services in the frequency bands 1 452-1 525 MHz and 2 310-2 360 MHz”;
- b) that ITU Radiocommunication Bureau (ITU-R) studies provides useful information on the power flux-density (pfd) level to protect broadcasting-satellite service (BSS) earth stations that could be used for coordination purposes,

recognizing

- a) that the frequency band 1 452-1 492 MHz is allocated to BSS (sound) and the mobile service (MS) on a primary basis;
- b) that the sharing conditions between BSS (sound) and MS are currently governed by No. **9.11**;
- c) that the application of No. **9.11** does not provide long-term stability for the operation of International Mobile Telecommunications (IMT) due to the fact that only the IMT systems that would come into operation within the next three years would be protected if their coordination is agreed, and only for those three years;
- d) that coordination requests for BSS (sound) in the frequency band 1 467-1 492 MHz have been submitted to the ITU Radiocommunication Bureau, moreover some BSS (sound) satellite systems are planned to be launched before WRC-19,

taking into account

- a) that currently there is no power flux-density (pfd) limit for the frequency band 1 452-1 492 MHz in Article **21** to protect MS (service area protection);
- b) that agreement was not reached at this conference on the results of technical and regulatory studies so far carried out on sharing of the frequency band 1 452-1 492 MHz by IMT and BSS;
- c) that there is no pfd limit at the border for IMT systems, and IMT systems which will be deployed in this frequency band will have to apply the coordination procedure under No. **9.19** in order to protect BSS (sound) systems deployed in neighbouring countries,

further recognizing

- a) that this conference has identified the frequency band 1 452-1 492 MHz for IMT on a worldwide basis;
- b) that compatibility studies need to be completed in order to establish appropriate sharing criteria between BSS (sound) and MS in the frequency band 1 452-1 492 MHz,

resolves to invite ITU-R

1 to conduct, in time for WRC-19, the appropriate regulatory and technical studies, with a view to ensuring the compatibility of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3, taking into account IMT and BSS (sound) operational requirements;

2 to prepare, *inter alia*, the regulatory action that could be taken, based on the studies carried out under *resolves to invite ITU-R 1* above, in order to facilitate the long-term stability of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz,

invites the 2019 World Radiocommunication Conference

to consider the above-mentioned results and to take necessary actions, as appropriate,

invites Member States

1 to actively participate in the ITU-R activities with regard to the studies referred to above;

2 in Region 1, to use guidance from the ITU-R studies to determine the need for bilateral coordination between IMT systems and BSS earth stations, taking into account *noting b*), until WRC-19 defines regulatory and technical conditions for this bilateral coordination;

3 in Region 3, to use guidance from ITU-R studies to determine the need for bilateral coordination to protect BSS earth stations, taking into account *noting b*), until WRC-19 defines regulatory and technical conditions for this bilateral coordination,

instructs the Director of the Radiocommunication Bureau

to report to WRC-19, under agenda item 9.1, the results of the studies referred to in *resolves to invite ITU-R 1*.