

## RESOLUTION 423 (WRC-12)

### **Consideration of regulatory actions, including allocations, to support Wireless Avionics Intra-Communications**

The World Radiocommunication Conference (Geneva, 2012),

*considering*

- a) that the future generation of aircraft is being designed to enhance efficiency, reliability and safety, as well as to be more environmentally friendly;
- b) that Wireless Avionics Intra-Communications (WAIC) systems are restricted to radiocommunications between two or more points integrated into or installed on a single aircraft;
- c) that WAIC systems do not include communications between an aircraft and the ground, another aircraft or a satellite;
- d) that WAIC systems have to ensure the safe operation of an aircraft and have to operate with an appropriate level of protection to comply with the safety and regularity of flight;
- e) that WAIC systems will be operated on the ground and during all phases of flight;
- f) that aircraft equipped with WAIC systems will be operated globally and will cross national borders,

*recognizing*

- a) that WAIC systems are being developed to operate safely and efficiently in one or more non-contiguous radio-frequency bands, emphasizing those currently allocated to the aeronautical mobile service and aeronautical radionavigation service;
- b) that WAIC systems operating inside an aircraft will benefit from fuselage attenuation and other aircraft surface attenuation in order to facilitate sharing with other services;
- c) that Report ITU-R M.2197 provides technical characteristics and operational objectives for WAIC systems,

*resolves*

that WRC-15 consider, based on the results of ITU-R studies, possible regulatory actions, including appropriate aeronautical allocations, to support the implementation of WAIC systems, while taking into account spectrum requirements for WAIC and protection requirements for systems operating in accordance with existing allocations,

*invites ITU-R*

- 1 to conduct, in time for WRC-15, the necessary studies to determine the spectrum requirements needed to support WAIC systems;
- 2 to conduct sharing and compatibility studies, based on the results of *invites ITU-R 1*, to determine appropriate frequency bands and regulatory actions;
- 3 when conducting studies in accordance with *invites ITU-R 2*, to consider:
  - i) frequency bands within existing worldwide aeronautical mobile service, aeronautical mobile (R) service and aeronautical radionavigation service allocations;

ii) additional frequency bands above 15.7 GHz for aeronautical services if spectrum requirements cannot be met in frequency bands studied under *invites ITU-R 3 i*),  
*invites*  
the International Civil Aviation Organization (ICAO) to contribute to these studies,  
*instructs the Secretary-General*  
to bring this Resolution to the attention of ICAO.