

RESOLUTION 236 (WRC-15)

Railway radiocommunication systems between train and trackside

The World Radiocommunication Conference (Geneva, 2015),

considering

- a) that railway transportation systems are evolving;
- b) that there is a need to integrate different technologies in order to facilitate various functions, for instance dispatching commands, operating control and data transmission, into railway train and trackside systems to meet the needs of a high-speed railway environment;
- c) that the current railway radiocommunication systems supporting railway train and trackside are narrowband systems;
- d) that the deployment of railway radiocommunication systems between train and trackside requires infrastructure investment,

recognizing

- a) that information and radiocommunication technologies in railway radiocommunication systems between train and trackside provide improved railway traffic control, passenger safety and improved security for train operations;
- b) that timely studies are required on technologies providing for railway radiocommunication;
- c) that international standards and harmonized spectrum would facilitate worldwide deployment of railway radiocommunication systems between train and trackside and provide for economies of scale in railway transportation for the public;
- d) that there is a need to benefit from the experiences in achieving compatibility between current railway radiocommunication systems between train and trackside and other radiocommunication systems,

noting

- a) that railway transportation contributes to global economic and social development, especially for developing countries;
- b) that some national and international railway organizations have begun investigations on new technologies for railway radiocommunication systems;
- c) that ITU Radiocommunication Sector (ITU-R) Study Group 5 is studying relevant technical and operational characteristics for railway radiocommunication systems;
- d) that, in some countries, railway radiocommunication systems may assist in providing passenger services,

emphasizing

- a) that, in the frequency bands in which these current and future systems operate, railway radiocommunication systems between train and trackside should be compatible with a variety of other systems;
- b) that the provisions of Nos. **1.59** and **4.10** do not apply for railway radiocommunication systems,

resolves to invite the 2019 World Radiocommunication Conference

based on the results of ITU-R studies, to take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands, to the extent possible, for the implementation of railway radiocommunication systems between train and trackside, within existing mobile-service allocations,

invites ITU-R

to study the spectrum needs, technical and operational characteristics and implementation of railway radiocommunication systems between train and trackside,

invites Member States, Sector Members, Associates and Academia

to participate actively in the study by submitting contributions to ITU-R,

instructs the Secretary-General

to bring this Resolution to the attention of International Union of Railways (UIC) and other relevant international and regional organizations.