QUESTION ITU-R 262/5

Usage of the terrestrial component of IMT systems for specific applications

(2019)

The ITU Radiocommunication Assembly,

considering

*a)* that the first IMT systems started service around the year 2000, and since then IMT systems such as IMT-Advanced and IMT-2020 have been developed and enhanced;

*b)* that IMT systems have contributed to global economic and social development;

*c)* that IMT-2020 systems provide further capabilities and extend to varied usage scenarios such as enhanced mobile broadband (eMBB), ultra-reliable and low latency communications (URLLC) and massive machine type communications (mMTC), described in Recommendation ITU‑R M.2083;

*d)* that Recommendation of the IMT-2020 terrestrial component radio interface specifications is scheduled to be finalized by 2020 in accordance with its timeline;

*e)* that IMT systems are leading the growth and development of industries in the field of ICT; and

*f)* that applicable areas of IMT are expected to be expanded further to various specific applications to facilitate the digital economy, e.g. e-manufacturing, e-agriculture, e-health, intelligent transport systems, smart city and traffic control, etc., which could bring requirements beyond current capabilities of IMT,

recognizing

*a)* that Resolution ITU-R 50 addresses the role of the Radiocommunication sector in the ongoing development of IMT;

*b)* that Question ITU-R 229/5 addresses in general terms the further development of the terrestrial component of IMT;

*c)* that Question ITU-R 209/5 addresses the use of the mobile, amateur and the amateur-satellite services in support of disaster radiocommunications;

*d)* that Recommendation ITU-R M.2083 defines the framework of the future development of IMT for 2020 and beyond, which includes further enhancement of existing IMT and the development of IMT-2020, as well as a broad variety of capabilities associated with envisaged usage scenarios;

*e)* that Report ITU-R M.2441 addresses the emerging usage of the terrestrial component of IMT;

*f)* that Report ITU-R M.2291 contains studies related to the usage of IMT for broadband public protection and disaster relief applications,

noting

*a)* that several groups and organizations inside and outside ITU-R are studying technologies, usages and spectrum for specific applications based on IMT systems;

*b)* that IMT systems are now being deployed in industrial and enterprise networks,

decides that the following Questions should be studied

1 What are the specific industrial and enterprise applications, their emerging usages, and their functionalities, that may be supported by IMT?

2 What are the technical characteristics, operational aspects, and capabilities associated with specific industrial and enterprise applications of using IMT?

further decides

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

2 that the above studies described in *decides* should be completed by 2023.

Category: S2