

## RESOLUTION 775 (WRC-19)

**Sharing between stations in the fixed service and satellite services  
in the frequency bands 71-76 GHz and 81-86 GHz**

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

*considering*

- a) that WRC-2000 made a number of different allocation changes to the frequency bands 71-76 GHz and 81-86 GHz based on the requirements known at the time;
- b) that the frequency bands 71-76 GHz and 81-86 GHz are allocated on a primary basis, among other services, to the fixed service globally;
- c) that the frequency band 71-76 GHz is also allocated to the fixed-satellite service (FSS) (space-to-Earth) and the mobile-satellite service (MSS) (space-to-Earth) and the frequency band 74-76 GHz is allocated to the broadcasting-satellite service;
- d) that the frequency band 81-86 GHz is also allocated to the FSS and MSS (Earth-to-space);
- e) that sharing conditions between the fixed service and satellite services in the frequency bands 71-76 GHz and 81-86 GHz could not be fully developed at WRC-2000 due to lack of available information on these services at the time;
- f) that now, nearly 20 years on, there have been a number of significant technology advances and changes in network requirements in the fixed service, and the frequency bands 71-76 GHz and 81-86 GHz have become strategically important frequency bands for high-capacity fixed-service links, including backhaul for future mobile networks;
- g) that WRC-12 already addressed sharing and compatibility issues between the fixed service and passive services in the frequency bands 71-76 GHz and 81-86 GHz and relevant adjacent frequency bands,

*recognizing*

- a) that there is now much more information available in the ITU Radiocommunication Sector (ITU-R) on the characteristics and deployment of fixed-service systems;
- b) that there are an increasing number of satellite filings in the frequency bands 71-76 GHz and 81-86 GHz;
- c) that Article 21 and other provisions of the Radio Regulations currently do not contain the necessary technical and regulatory provisions to protect the fixed-service use in the frequency bands 71-76 GHz and 81-86 GHz;
- d) that Resolution 750 (Rev.WRC-19) already contains necessary provisions to protect passive services in the frequency bands and adjacent frequency bands from emissions of the fixed service in the frequency bands 71-76 GHz and 81-86 GHz, and there is no intention to change these provisions;
- e) that there is no intention to change the existing allocations or status of those allocations in Article 5 of the Radio Regulations for the frequency bands 71-76 GHz and 81-86 GHz,

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*resolves to invite the ITU Radiocommunication Sector*

to conduct, as a matter of urgency and in time for WRC-27, the appropriate studies to determine power flux-density and equivalent isotropically radiated power limits in Article 21 for satellite services to protect the fixed service in the frequency bands 71-76 GHz and 81-86 GHz without unduly constraining satellite systems,

*invites the 2027 World Radiocommunication Conference*

to consider the results of studies and take necessary action,

*invites administrations*

to participate actively in the studies by submitting contributions to ITU-R.