

ITUEvents

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#ITUWRC**

**Session 3
WRC-23 agenda item 1.8**

***Gregory Baker*
*Chair WP 5B***



Agenda Item 1.8

to consider possible additional spectrum allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz and possible new identifications for radiolocation service applications in the frequency bands within the frequency range 275-700 GHz for millimetric and sub-millimetric wave imaging systems, in accordance with Resolution **663 (Rev. WRC-23)**

Responsible Group	WP-5B Chair: Gregory Baker (USA),	WG Chair: Ahmed Kormed (EGY)
Contributing Groups	WP-3J, WP-3K, WP-3M, WP-4A, WP-4C, WP-5A, WP-5C, WP-7C & WP 7D	

resolves to invite ITU-R

- 1 the description of the technical and operational characteristics, including required protection criteria, for those receive-only and active millimetric and sub-millimetric wave RLS systems and applications in the categories listed in recognizing a);
- 2 studies on globally harmonized spectrum for the RLS, in particular for those millimetric and sub-millimetric wave RLS systems and applications above 231.5 GHz;
- 3 sharing and compatibility studies (in-band and adjacent bands) for active millimetric and sub-millimetric wave RLS systems and applications with other services in the frequency range 231.5-275 GHz, while ensuring protection for the current use and further development of the incumbent services allocated to this frequency range;
- 4 sharing and compatibility studies (in-band and adjacent bands) for RLS applications with EESS (passive), space research service (passive) and RAS applications in the frequency range 275-700 GHz, while maintaining protection for the passive service applications identified in No. **5.565**;
- 5 sharing and compatibility studies (in-band and adjacent bands) for RLS applications with fixed service and land mobile service applications in the frequency range 275-450 GHz, as identified in No. **5.564A**,

invites the 2027 World Radiocommunication Conference

- 1 to determine, based on the results of the ITU-R studies described in resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference, possible new allocations to the RLS in the frequency range 231.5-275 GHz on a primary basis, considering required regulatory measures, while taking into account and ensuring the protection of the current use and further development of existing services in the frequency bands considered and in adjacent frequency bands;
- 2 to determine, based on the results of the ITU-R studies described in resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference, possible identifications of frequency bands in the frequency range 275-700 GHz for use by RLS applications, considering required regulatory measures, while ensuring the protection of the applications identified in Nos. **5.564A** and **5.565** in the frequency bands considered and, as appropriate, in adjacent frequency bands.

Method Proposed to Solve the Agenda Item

Method A

- Allocates the band 252-275 GHz in all three ITU-R Regions on a primary basis to the Radiolocation service
- Identifies the ranges 275-296 GHz and 356-439 GHz in all three ITU-R Regions for use by applications of the Radiolocation Service
- References Radiolocation systems contained in WD-PDNR.[RLS_FREQ_above_231GHz] (Not incorporated by reference)

Note: These methods are included in the working document towards Draft CPM Text for WRC-27 AI 1.8 but have not been agreed by the Working Party