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| **Radiocommunication Study Groups** |  |
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| Source: [Annex 9](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5B-C-0062!N09!MSW-E) to [Document 5B/62](http://www.itu.int/md/R12-WP5B-C-0062/en) | **Annex 8 to Document 5A/79-E** |
| **5 June 2012** |
| **English only** |
| Annex 8 to Working Party 5A Chairman’s Report  Working Parties 5A and 5B | |
| DRAFT OUTLINE OF CPM TEXT FOR WRC-15 AGENDA ITEM 1.18 | |

# 1 Introduction

Working Party 5B is the group responsible for the development of CPM text for WRC-15 Agenda item 1.18. Agenda item 1.18 calls for consideration of a primary allocation to the radiolocation service for automotive radar applications in the 77.5-78.0 GHz frequency band in accordance withResolution **654 (WRC-12)**.

Resolution **654** **(WRC-12)** (Allocation of the band 77.5-78 GHz to the radiolocation service to support automotive short-range high-resolution radar operations),

invites ITU-R

*“to conduct, as a matter of urgency, and in time for consideration by WRC‑15, the appropriate technical, operational and regulatory studies, including:*

*i) sharing studies and regulatory solutions to consider a primary allocation to the radiolocation service in the band 77.5-78 GHz, taking into account incumbent services and existing uses of the band;*

*ii) compatibility studies in the band 77.5-78 GHz with services operating in the adjacent bands 76-77.5 GHz and 78-81 GHz;*

*iii) spectrum requirements, operational characteristics and evaluation of ITS safety-related applications that would benefit from global or regional harmonization.*

It is noted that the band 77.5-78 GHz is allocated to the amateur and amateur satellite services on a primary basis, and to space research and radio astronomy services on a secondary basis.

# 2 Proposal

Working Group 5B-1 considered and agreed on Attachment, draft outline of CPM Text for WRC‑15 Agenda item 1.18 as a preliminary draft for further consideration at the forthcoming meetings.

**Attachment:** 1

Attachment

Draft outline of CPM text for WRC-15 Agenda item 1.18

*1.18 to consider a primary allocation to the radiolocation service for automotive applications in the 77.5-78.0 GHz frequency band in accordance with Resolution COM6/23 (WRC‑12);*

Resolution **654 (WRC‑12)**: Allocation of the band 77.5-78 GHz to the radiolocation service to support automotive short-range high-resolution radar operations.

### 3/1.18/2 Executive summary

[TBD]

### 3/1.18/3 Background

[TBD]

### 3/1.18/4 Summary of the technical and operational studies, including a list of relevant ITU‑R Recommendations

[TBD]

### 3/1.18/5 Analysis of the results of studies relating to the possible methods of satisfying the agenda item

[TBD]

### 3/1.18/6 Method(s) to satisfy the agenda item for consideration by the WRC-15 and the advantages and disadvantages of each method

[TBD]

### 3/1.18/7 Regulatory and procedural considerations

Table 1 below is an extract of Article 5 of the RR in the frequency band 76-81 GHz and the related footnotes.

Table 1

Existing allocations in the frequency band 76-81 GHz

76-81 GHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| … | | |
| 76-77.5 RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  Space research (space-to-Earth)  5.149 | | |
| 77.5-78 AMATEUR  AMATEUR-SATELLITE  Radio astronomy  Space research (space-to-Earth)  5.149 | | |
| 78-79 RADIOLOCATION  Amateur  Amateur-satellite  Radio astronomy  Space research (space-to-Earth)  5.149 5.560 | | |
| 79-81 RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  Space research (space-to-Earth)  5.149 | | |

5.560 In the band 78-79 GHz radars located on space stations may be operated on a primary basis in the Earth exploration-satellite service and in the space research service.

5.149 In making assignments to stations of other services to which the band [76-86 GHz] are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. **4.5** and **4.6** and Article **29**).     (WRC‑07)