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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | |  |
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| PLENARY MEETING | | **Document 154-E** | |
|  | | **30 October 2023** | |
|  | | **Original: English** | |
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| Angola (Republic of)/Eswatini (Kingdom of)/Lesotho (Kingdom of)/Malawi/Mali (Republic of)/Mozambique (Republic of)/South Sudan (Republic of) | | | |
| Proposals for the work of the conference | | | |
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| Agenda item 1.3 | | | |

1.3to consider primary allocation of the frequency band 3 600‑3 800 MHz to the mobile service in Region 1 and take appropriate regulatory actions, in accordance with Resolution**246** **(WRC‑19)**;

Introduction

The WRC‑23 agenda item 1.3 aims to conduct studies to consider possible allocation of the frequency band 3 600-3 800 MHz to the mobile, except aeronautical mobile service, on a primary basis within Region 1, in accordance with Resolution **246 (WRC‑19).** A potential upgrade of mobile service (MS) to primary, if agreed, should ensure protection of those services to which the frequency band is allocated on a primary basis and not impose undue constraints on the existing services and their future development.

The contributing administrations recognize the need for a flexible and balanced approach when considering more spectrum for MS. There are number of frequency bands allocated to the MS on a primary basis that are available for mobile deployment in the mid-band spectrum in Africa. The frequency band 3 300-3 400 MHz available in parts of Africa (see footnotes No.**5.429A** and No.**5.429B** of the Radio Regulations (RR)) together with the frequency band 3 400-3 600 MHz available globally (seeRRNo. **5.430A**) already provide 300 MHz of spectrum in C-Band in Africa. Discussion at ATU level in preparation of WRC‑23 highlighted the need to find a method that provides flexibility for member states wishing to use the frequency band 3 600-3 800 MHz for MS or parts of that frequency band, i.e. 3 600-3 700 MHz.

Recognizing the pressure for more mobile spectrum as well as the need to preserve regulatory certainty for incumbent services, this contribution proposes the upgrade of the allocation to MS up to 3.7 GHz with IMT identification while allowing flexibility for administrations to extend this use up to 3.8 GHz through a country footnote.

Proposal

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations  
(See No. 2.1)

MOD AGL/SWZ/LSO/MWI/MLI/MOZ/SSD/154/1

3 600-4 800 MHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 3 600-3 700  FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile ADD 5.A13-1 | 3 600-3 700  FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile 5.434  Radiolocation 5.433 | 3 600-3 700  FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile  Radiolocation  5.435 |
| 3 700-4 200  FIXED  FIXED-SATELLITE (space-to-Earth)  Mobile ADD 5.A13-2 | 3 700-4 200  FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile | |

**Reasons:** Recognizing the pressure for more mobile spectrum as well as the need to preserve regulatory certainty for incumbent services, the changes propose the upgrade of the allocation to MS up to 3.7 GHz with IMT identification while allowing flexibility for administrations to extend this use up to 3.8 GHz through a country footnote.

ADD AGL/SWZ/LSO/MWI/MLI/MOZ/SSD/154/2

5.A13-1 The allocation of the frequency band 3 600-3 700 MHz to the mobile, except aeronautical mobile, service is subject to agreement obtained under No. **9.21**. This frequency band is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The provisions of Nos. **9.17** and **9.18** shall also apply in the coordination phase. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band, it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed −154.5 dB(W/(m2 ⋅ 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station) and with the assistance of the Bureau if so requested. In case of disagreement, calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service systems operating in the frequency band 3 600-3 700 MHz shall not claim more protection from space stations than that provided in Table **21-4** of the Radio Regulations.     (WRC-23)

**Reasons:** This footnote identifies the frequency band 3 600-3 700 MHz to IMT in Region 1 and provides the same technical conditions as for the frequency band 3 400-3 600 MHz listed in footnote RR No.**5.430A**.

ADD AGL/SWZ/LSO/MWI/MLI/MOZ/SSD/154/3

5.A13-2 *Different category of service:*in [country A], [country B], [country C], […], the frequency band 3 700-3 800 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis, subject to agreement obtained under No. **9.21** with other administrations and is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. **9.17** and **9.18** also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed −154.5 dB(W/(m2 ⋅ 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 3 700-3 800 MHz shall not claim more protection from space stations than that provided in Table **21‑4** of the Radio Regulations.     (WRC 23)

**Reasons:** This footnote provides the flexibility for administrations to extend the use of mobile service with IMT identification in the frequency band 3 700-3 800 MHz through a country footnote.

SUP AGL/SWZ/LSO/MWI/MLI/MOZ/SSD/154/4#1407

RESOLUTION 246 (WRC‑19)

Studies to consider possible allocation of the frequency band   
3 600-3 800 MHz to the mobile, except aeronautical mobile,   
service on a primary basis within Region 1

**Reasons:** Propose to suppress Resolution **246 (WRC-19)** since the WRC-23 agenda item 1.3 will be completed at WRC-23.

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