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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| PLENARY MEETING | **Addendum 6 to Document 130-E** |
|  | **16 October 2015** |
|  | **Original: English** |
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| Angola (Republic of)/Botswana (Republic of)/Lesotho (Kingdom of)/ Madagascar (Republic of)/Malawi/Mauritius (Republic of)/ Mozambique (Republic of)/Namibia (Republic of)/Democratic Republic  of the Congo/Seychelles (Republic of)/South Africa (Republic of)/ Swaziland (Kingdom of)/Tanzania (United Republic of)/ Zambia (Republic of)/Zimbabwe (Republic of) | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.6.1 | |

1.6 to consider possible additional primary allocations:

1.6.1 to the fixed-satellite service (Earth-to-space and space-to-Earth) of 250 MHz in the range between 10 GHz and 17 GHz in Region 1;

and review the regulatory provisions on the current allocations to the fixed-satellite service within each range, taking into account the results of ITU‑R studies, in accordance with Resolutions **151 (WRC‑12)** and **152 (WRC‑12)**, respectively;

Introduction

WRC-12 adopted WRC-15 agenda item 1.6.1 to consider additional primary allocations to the FSS in the range 10-17 GHz in Region 1 (Earth-to-space and space-to-Earth) and a review of regulatory provisions for existing FSS allocations, taking into account ITU-R studies in accordance with Resolution 151 (WRC-12).

Summary of SADC Proposals

The SADC Member States support the MOD of Article 5 of the RR and Resolution 151 (Rev.WRC‑12) as proposed in the final CPM Text. In respect of this, SADC support method EE2 as per final CPM text.

**Reasons:** The band is not heavily used for point to point links.

The SADC Member States do not support the MOD of Article 5 of the RR and Resolution 151   
(Rev. WRC-12) as proposed in the final CPM Text. No change to remaining bands   
(10-10.5 GHz, 14.5-14.8 GHz, 14.8-15.35 GHz, 15.4-15.7 GHz).

**Reasons**: The bands are heavily used by point to point links. Microwave backhaul and backbone links are being used in this band in the SADC Region hence need to protect the investment which is on the ground.

Proposals

ARTICLE 5

Frequency allocations

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

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A6/1

11.7-14 GHz

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| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 13.4-13.65  EARTH EXPLORATION-SATELLITE (active)  FIXED-SATELLITE (space-to-Earth) ADD 5.C161 ADD 5.X161 ADD 5.C161bis  RADIOLOCATION  SPACE RESEARCH ADD 5.L161  Standard frequency and time signal-satellite (Earth-to-space)  5.499 5.500 5.501 5.501B | 13.4-13.65  EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH ADD 5.L161  Standard frequency and time signal-satellite (Earth-to-space)  5.499 5.500 5.501 5.501B | |
| 13.65-13.75 EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH MOD 5.501A  Standard frequency and time signal-satellite (Earth-to-space)  5.499 5.500 5.501 5.501B | | |

ADD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A6/2

5.C161 The use of the band 13.4-13.65 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary-satellite systems and is subject to agreement obtained under No. **9.21** with respect to satellite systems, operating in the space research service (space-to-space) to relay data from space stations in the geostationary satellite orbit to associated space stations in the non-geostationary satellite orbit, for which information for advance publication has been received by the Bureau prior to 27 November 2015.     (WRC‑15)

**Reasons:** To limit use of the new FSS allocation (space-to-Earth) in Region 1 to GSO FSS, and to specify the terms and conditions for sharing between newly filed GSO FSS networks and SRS systems already notified to the Bureau, operating on space-to-space link to relay data from GSO space station to non-GSO user space station. There is understanding, that coordination of newly filed GSO FSS networks and already notified to the Bureau SRS (space-to-Earth) systems is subject to RR No. 9.7.

ADD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A6/3

5.L161 The allocation of the band 13.4-13.65 GHz to the space research service on a primary basis is limited to active spaceborne sensors, as well as satellite systems, operating in the space research service (space-to-Earth and space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated earth stations and space stations in the non-geostationary-satellite orbit, for which information for advance publication has been received by the Bureau prior to 27 November 2015. Satellite systems in the space research service (space-to-Earth and space-to-space) shall not cause harmful interference to nor claim protection from stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. Other uses of the band by the space research service are on a secondary basis.     (WRC‑15)

**Reasons:** Since only the frequency assignments having allocation of the considered frequency band on an equal basis are taken into account in the coordination under RR Article **9** it is proposed to modify footnote No. 5.501А and to add a new footnote under which the status of the ITU BR notified frequency assignments of DRS in SRS (s-E and s-s) will be increased up to the primary with regard to FSS. With respect to FSS stations in Region 1 in any case it is required to seek the agreement of other administrations (under RR No. 9.21) operating DRS in SRS (space-to-space) in Region 1, with NGSO user which can be potentially located over the territories of Regions 2 and 3. The direction of the DRS SRS links (space-to-Earth and space-to-space) is defined by the relevant Recommendations therefore it is not specified in RR Article 5 footnotes.

ADD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A6/4

5.X161 Administrations shall not preclude the deployment and operation of transmitting earth stations in the standard frequency and time signal-satellite (Earth-to-space) allocated on a secondary basis in the band 13.4-13.65 GHz, due to the primary allocation to FSS (space-to-Earth).

**Reasons:** To ensure the deployment of transmitting Earth stations for the European ACES system in the band 13.4-13.75 GHz operating under the standard frequency and time signal-satellite.

ADD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A6/5

5.C161*bis* In the band 13.4-13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations. No. **5.43A** and No. **22.2** do not apply.     (WRC‑15)

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A6/6

5.501A The allocation of the band 13.65-13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis.     (WRC‑15)

**Reasons:** To ensure operation of notified to the Bureau SRS systems on space-to-Earth and space-to-space links on an equal basis with newly filed stations in the fixed-satellite service (space-to-Earth).

SUP AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A6/7

RESOLUTION 151 (WRC‑12)

Additional primary allocations to the fixed-satellite service   
in frequency bands between 10 and 17 GHz in Region 1

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