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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| PLENARY MEETING | **Addendum 1 to Document 130(Add.2)-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 | |
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| Agenda item 1.2 | |

1.2 to examine the results of ITU‑R studies, in accordance with Resolution **232 (WRC‑12)**, on the use of the frequency band 694-790 MHz by the mobile, except aeronautical mobile, service in Region 1 and take the appropriate measures;

Introduction

WRC-12 adopted Resolution 232 (WRC-12) relating to the use of the frequency band 694-790 MHz in Region 1 by the mobile, except aeronautical mobile, service. The mobile service primary allocation will be effective post WRC-15.In addition, the frequency band 694-790 MHz is also allocated to the broadcasting service on a primary basis in the Southern African Development Community (SADC).

Extensive replanning of the GE-06 Agreement has been conducted within Africa and SADC in order to, amongst others, accommodate broadcasting services in the UHF band below 694 MHz. Therefore, in future, mobile services (IMT) will operate in the frequency band 694-790 MHz whereas broadcasting services will operate in the band 470-694 MHz.

WRC-15 agenda item 1.2 addresses the following issues:

• Issue A: Options for the refinement of the lower edge;

• Issue B: Technical and regulatory conditions applicable to the MS concerning the compatibility between the MS and the BS

• Issue C: Technical and regulatory conditions applicable to the MS concerning the compatibility between the MS and the ARNS

• Issue D: Solutions for accommodating applications ancillary to broadcasting requirements.

Proposal – Issue A: Option for the refinement of the lower edge of the mobile allocation

The SADC Member States support Method A of the CPM Report, which proposes the following:

• Modification of RR Article 5 to insert the allocation to the mobile, except aeronautical mobile, service in the frequency band 694-790 MHz in Region 1 on a primary basis.

• Technical and regulatory conditions apply as in one of the methods for Issue B and in the Method(s) of Issue C, to be decided by WRC-15, based on the results of the studies performed by the ITU-R.

• Modification of RR No. 5.317A to extend the identification of IMT in Region 1 down to 694 MHz.

• Consequential modification of RR No. 5.312A to reflect the decisions of WRC-15 for Issues B and C, as appropriate.

For the modification of footnotes 5.317A and 5.312A, SADC member states support option 1.

**Reasons** : GE06 modification activities are based on the upper edge of 694 MHz for broadcasting services.

Proposal – Issue B: Technical and regulatory conditions applicable to the mobile service concerning the compatibility between the mobile service and the broadcasting service

The SADC member states support Method B1 of the CPM Report, which proposes no change.

**Reasons**: The protection of the BS below 694 MHz from the MS can be ensured through applying the technical and regulatory provisions of the GE06 Agreement. ITU-R Recommendations may be developed which specify the out-of-band emission limit of IMT UE operating in the 700 MHz band.

Proposal – Issue D: Solutions for accommodating applications ancillary to broadcasting requirements

The SADC member states support Method D3 of the CPM Report, which proposes modification of the existing upper limits of frequency bands mentioned in RR No. **5.296** for the secondary allocation to 694 MHz and extension of that use to the applications ancillary to programme-making.

**Reasons**: Studies have shown that co-channel and co-location operation between SAB/SAP and IMT is not feasible, therefore it is proposed modify the existing upper limits of frequency bands mentioned in RR No. **5.296** for the secondary allocation to 694 MHz. Moreover, recognizing that non-broadcasting production teams use the same kind of equipment as broadcasting teams and many productions are conducted exclusively by external production teams or in cooperation with broadcasting teams, modifying RR No. 5.296 to include “programme making” will increase flexibility in the use of the spectrum.

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/130A2A1/1

460-890 MHz

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| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 470- 694  BROADCASTING  5.149 5.291A 5.294 MOD 5.296  5.300 5.304 5.306 5.311A 5.312 | 470-512  BROADCASTING  Fixed  Mobile  5.292 5.293 | 470-585  FIXED  MOBILE  BROADCASTING  5.291 5.298 |
| 512-608  BROADCASTING  5.297 |
| 585-610  FIXED  MOBILE  BROADCASTING  RADIONAVIGATION  5.149 5.305 5.306 5.307 |
| 608-614  RADIO ASTRONOMY  Mobile-satellite except aeronautical mobile-satellite (Earth-to-space) |
| 610-890  FIXED  MOBILE 5.313A 5.317A  BROADCASTING |
| 614-698  BROADCASTING  Fixed  Mobile  5.293 5.309 5.311A |
| 694 ~~-~~790  BROADCASTING  MOBILE except aeronautical mobile MOD 5.312A MOD 5.317A  5.300 5.311A 5.312 |
| 698-806  MOBILE 5.313B 5.317A  BROADCASTING  Fixed  5.293 5.309 5.311A |
| 790-862  FIXED  MOBILE except aeronautical mobile 5.316B 5.317A  BROADCASTING  5.312 5.314 5.315 5.316  5.316A 5.319 |
| 806-890  FIXED  MOBILE 5.317A  BROADCASTING |
| 862-890  FIXED  MOBILE except aeronautical mobile 5.317A  BROADCASTING 5.322 |
| 5.319 5.323 | 5.317 5.318 | 5.149 5.305 5.306 5.307 5.311A 5.320 |

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
 ZWE/130A2A1/2

5.296 *Additional allocation:* in Albania, Germany, Saudi Arabia, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Burkina Faso, Cameroon, Congo (Rep. of the), Côte d'Ivoire, Croatia, Denmark, Djibouti, Egypt, United Arab Emirates, Spain, Estonia, Finland, France, Gabon, Ghana, Iraq, Ireland, Iceland, Israel, Italy, Jordan, Kuwait, Latvia, The Former Yugoslav Republic of Macedonia, Libya, Liechtenstein, Lithuania, Luxembourg, Mali, Malta, Morocco, Moldova, Monaco, Niger, Norway, Oman, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Slovakia, the Czech Republic, the United Kingdom, Sudan, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia, Turkey, Angola, Botswana, Lesotho, Malawi, Mauritius, Mozambique, Namibia, Nigeria, South Africa, Tanzania, Zambia and Zimbabwe, the band 470-694 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting and programme-making. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote.    (WRC‑15)

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
 ZWE/130A2A1/3

5.312A In Region 1, the use of the band 694-790 MHz by the mobile, except aeronautical mobile, service is subject to the provisions of Resolution **232 (Rev.WRC‑15)**. See also Resolution **224 (Rev.WRC‑12)**.    (WRC‑15)

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
 ZWE/130A2A1/4

5.317A Those parts of the band 698-960 MHz in Region 2 and the bands 694-790 MHz in

Region 1 and 790-960 MHz in Regions 1 and 3 which are allocated to the mobile service on a primary basis are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) – see Resolutions **224 (Rev.WRC‑12), 232 (Rev.WRC-15)** and **749 (Rev.WRC‑12)**, as appropriate. This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations.    (WRC‑15)

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
 ZWE/130A2A1/5

RESOLUTION 232 (REV.WRC‑15)

Use of the frequency band 694-790 MHz by the mobile, except aeronautical mobile, service in Region 1

The World Radiocommunication Conference (Geneva, 2015),

...

resolves

1 that use of the frequency band 694-790 MHz by the mobile service issubject to agreement obtained under No. **9.21** with respect to the aeronautical radionavigation service in countries listed in No. **5.312**;

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