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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
|  |  |
| PLENARY MEETING | **Addendum 16 to Document 85-E** |
|  | **16 October 2015** |
|  | **Original: English** |
|  | |
| Burundi (Republic of)/Kenya (Republic of)/Uganda (Republic of)/Rwanda (Republic of)/Tanzania (United Republic of) | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.16 | |

1.16 to consider regulatory provisions and spectrum allocations to enable possible new Automatic Identification System (AIS) technology applications and possible new applications to improve maritime radiocommunication in accordance with Resolution **360** **(WRC‑12)**;

Introduction

The following issues were derived from this Agenda Item:

– Issue A: Application specific message designation

– Issue B: New applications for maritime radiocommunication – terrestrial component

– Issue C: New application for maritime radiocommunication – satellite component

– Issue D: VDES regional solution

The position of EACO member countries (BDI/KEN/UGA/RRW/TZA) on the above issues are summarized in the table below:

|  |  |
| --- | --- |
| Issue | EACO supported method in CPM report |
| Issue A | A2 |
| Issue B | B2 |
| Issue C | C2 |
| Issue D | D |

Proposal

BDI/KEN/UGA/RRW/TZA (EACO member countries propose the following on each issue:

# 1) Issue A: Application specific message designation

MOD BDI/KEN/UGA/RRW/TZA/85A16/1

APPENDIX 18 (REV.WRC‑15)

Table of transmitting frequencies in the  
VHF maritime mobile band

(See Article 52)

NOTE A – For assistance in understanding the Table, see Notes *a)* to *z)* below.     (WRC‑12)

NOTE B – The Table below defines the channel numbering for maritime VHF communications based on 25 kHz channel spacing and use of several duplex channels. The channel numbering and the conversion of two-frequency channels for single-frequency operation shall be in accordance with Recommendation ITU‑R M.1084‑4 Annex 4, Tables 1 and 3. The Table below also describes the harmonized channels where the digital technologies defined in the most recent version of Recommendation ITU‑R M.1842 could be deployed.     (WRC‑12)

| Channel designator | Notes | Transmitting frequencies  (MHz) | | Inter-ship | Port operations  and ship movement | | Public corres-pondence |
| --- | --- | --- | --- | --- | --- | --- | --- |
| From ship stations | From coast stations | Single frequency | Two frequency |
| 15 | *g)* | 156.750 | 156.750 | x | x |  |  |
| 75 | *n), s)* | 156.775 | 156.775 |  | x |  |  |
| 16 | *f)* | 156.800 | 156.800 | DISTRESS, SAFETY AND CALLING | | | |
| 76 | *n), s)* | 156.825 | 156.825 |  | x |  |  |
| 17 | *g)* | 156.850 | 156.850 | x | x |  |  |
| 77 |  | 156.875 |  | x |  |  |  |
| 18 | *m)* | 156.900 | 161.500 |  | x | x | x |
| 78 | *t), u), v)* | 156.925 | 161.525 |  | x | x | x |
| 1078 |  | 156.925 | 156.925 |  | x |  |  |
| 2078 | *ZZZZ)* | 161.525 | 161.525 |  | x |  |  |
| 19 | *t), u), v)* | 156.950 | 161.550 |  | x | x | x |
| 1019 |  | 156.950 | 156.950 |  | x |  |  |
| 2019 | *ZZZZ)* | 161.550 | 161.550 |  | x |  |  |
| 79 | *t), u), v)* | 156.975 | 161.575 |  | x | x | x |
| 1079 |  | 156.975 | 156.975 |  | x |  |  |
| 2079 | *ZZZZ)* | 161.575 | 161.575 |  | x |  |  |
| 20 | *t), u), v)* | 157.000 | 161.600 |  | x | x | x |
| 1020 |  | 157.000 | 157.000 |  | x |  |  |
| 2020 | *ZZZZ)* | 161.600 | 161.600 |  | x |  |  |
| ... | *...* | ... | ... | ... | ... | ... | ... |
| 27 | *z), ZZZ)* | 157.350 | 161.950 |  |  | x | x |
| 87 | *z)* | 157.375 | 157.375 |  | x |  |  |
| 28 | *z)* | 157.400 | 162.000 |  |  | x | x |
| 88 | *z), ZZZ)* | 157.425 | 157.425 |  | x |  |  |
| AIS 1 | *f), l), p)* | 161.975 | 161.975 |  |  |  |  |
| AIS 2 | *f), l), p)* | 162.025 | 162.025 |  |  |  |  |

**Notes referring to the Table**

ADD BDI/KEN/UGA/RRW/TZA/85A16/2

*ZZZ)* From 1 January 2019, these channels may be used for ASM application. These channels could be continuously used for simplex voice applications subject to coordinating with ASM application, and not claiming protection.     (WRC‑15)

**Reasons:** The existing duplex channel 27 and 28 will be kept as a duplex for MMS. The existing simplex channels will be identified for ASM.

ADD BDI/KEN/UGA/RRW/TZA/85A16/3

*ZZZZ)* While using these channels (2078, 2079, 2019 and 2020) all precautions should be taken to avoid harmful interference to channels AIS1 and AIS2, by limiting the output power to 1 W.     (WRC‑15)

**Reasons:** The following channels (2078, 2079, 2019 and 2020) will be kept for voice transmission in MMS. This approach is in similar to measures to protect 16 channel (footnote *n)* Appendix 18).

# 2) Issue B: New applications for maritime radiocommunication – terrestrial component

MOD BDI/KEN/UGA/RRW/TZA/85A16/4

APPENDIX 18 (REV.WRC‑12)

Table of transmitting frequencies in the  
VHF maritime mobile band

(See Article 52)

…/…

| Channel designator | Notes | Transmitting frequencies  (MHz) | | Inter-ship | Port operations  and ship movement | | Public corres-pondence |
| --- | --- | --- | --- | --- | --- | --- | --- |
| From ship stations | From coast stations | Single frequency | Two frequency |
| ... | *...* | ... | ... | ... | ... | ... | ... |
| 80 | *w), y)* | 157.025 | 161.625 |  | x | x | x |
| 21 | *w), y)* | 157.050 | 161.650 |  | x | x | x |
| 81 | *w), y)* | 157.075 | 161.675 |  | x | x | x |
| 22 | *w), y)* | 157.100 | 161.700 |  | x | x | x |
| 82 | *w), x), y)* | 157.125 | 161.725 |  | x | x | x |
| 23 | *w), x), y)* | 157.150 | 161.750 |  | x | x | x |
| 83 | *w), x), y)* | 157.175 | 161.775 |  | x | x | x |
| 24 | *w), ww), x), y,) dddd)* | 157.200 | 161.800 |  | x | x | x |
| 84 | *w), ww), x), y, dddd))* | 157.225 | 161.825 |  | x | x | x |
| 25 | *w), ww), x), y, dddd))* | 157.250 | 161.850 |  | x | x | x |
| 85 | *w), ww), x), y, dddd))* | 157.275 | 161.875 |  | x | x | x |
| 26 | *w), ww), x), y), dddd)* | 157.300 | 161.900 |  | x | x | x |
| 86 | *w), ww), x), y), dddd)* | 157.325 | 161.925 |  | x | x | x |
| ... | *...* | ... | ... | ... | ... | ... | ... |

**Notes referring to the Table**

…/…

MOD BDI/KEN/UGA/RRW/TZA/85A16/5

*w)* In Regions 1 and 3 (except China):

Until 1 January 2017, the frequency bands 157.025-157.325 MHz and 161.625-161.925 MHz (corresponding to channels: 80, 21, 81, 22, 82, 23, 83, 24, 84, 25, 85, 26 and 86) may be used for new technologies, or testing and experiment of VDE terrestrial component, subject to coordination with affected administrations. Stations using these channels or frequency bands for new technologies shall not cause harmful interference to, or claim protection from, other stations operating in accordance with Article **5**.

From 1 January 2017, the frequency bands 157.025‑157.325 MHz and 161.625-161.925 MHz (corresponding to channels: 80, 21, 81, 22, 82, 23, 83, 24, 84, 25, 85, 26 and 86) are identified for the utilization of the digital systems described in the most recent version of Recommendation ITU‑R M.1842. These frequency bands could also be used for analogue modulation described in the most recent version of Recommendation ITU‑R M.1084 by an administration that wishes to do so, subject to not claiming protection from other stations in the maritime mobile service using digitally modulated emissions and subject to coordination with affected administrations.     (WRC‑15)

NOC

Notes *ww)*, *x),* *y)* and *z)*

ADD BDI/KEN/UGA/RRW/TZA/85A16/6

*dddd)* [From 1 January 2019,] the frequency bands 157.200-157.325 and 161.800-161.925 MHz (corresponding to channels: 24, 84, 25, 85, 26 and 86) are designated for digitally modulated emissions in accordance with the most recent version of Recommendation ITU‑R M.1842.     (WRC‑15)

# 3) Issue C: New application for maritime radiocommunication – satellite component

NOC BDI/KEN/UGA/RRW/TZA/85A16/7

ARTICLE 5

Frequency allocations

# 4) Issue D:VDES regional solution

MOD BDI/KEN/UGA/RRW/TZA/85A16/8

APPENDIX 18 (REV.WRC‑12)

Table of transmitting frequencies in the  
VHF maritime mobile band

(See Article 52)

…/…

| Channel designator | Notes | Transmitting frequencies  (MHz) | | Inter-ship | Port operations  and ship movement | | Public corres-pondence |
| --- | --- | --- | --- | --- | --- | --- | --- |
| From ship stations | From coast stations | Single frequency | Two frequency |
| ... | ... | ... | ... | ... | ... | ... | ... |
| 80 | *w), y), xx)* | 157.025 | 161.625 |  | x | x | x |
| 1080 | *w), y), xx)* | 157.025 | 157.025 | x | x |  |  |
| 2080 | *w), y), xx)* | 161.625 | 161.625 | x | x |  |  |
| 21 | *w), y), xx)* | 157.050 | 161.650 |  | x | x | x |
| 1021 | *w), y), xx)* | 157.050 | 157.050 | x | x |  |  |
| 2021 | *w), y), xx)* | 161.650 | 161.650 | x | x |  |  |
| 81 | *w), y), xx)* | 157.075 | 161.675 |  | x | x | x |
| 1081 | *w), y), xx)* | 157.075 | 157.075 | x | x |  |  |
| 2081 | *w), y), xx)* | 161.675 | 161.675 | x | x |  |  |
| 22 | *w), y), xx)* | 157.100 | 161.700 |  | x | x | x |
| 1022 | *w), y), xx)* | 157.100 | 157.100 | x | x |  |  |
| 2022 | *w), y), xx)* | 161.700 | 161.700 | x | x |  |  |
| 82 | *w), x), y)* | 157.125 | 161.725 |  | x | x | x |
| 1082 | *w), x), y)* | 157.125 | 157.125 | x | x |  |  |
| 2082 | *w), x), y)* | 161.725 | 161.725 | x | x |  |  |
| 23 | *w), x), y), xxx)* | 157.150 | 161.750 |  | x | x | x |
| 1023 | *w), x), y), xxx)* | 157.150 | 157.150 | x | x |  |  |
| 2023 | *w), x), y), xxx)* | 161.750 | 161.750 | x | x |  |  |
| 83 | *w), x), y), xxx)* | 157.175 | 161.775 |  | x | x | x |
| 1083 | *w), x), y), xxx)* | 157.175 | 157.175 | x | x |  |  |
| 2083 | *w), x), y), xxx)* | 161.775 | 161.775 | x | x |  |  |
| ... | *...* | ... | ... | ... | ... | ... | ... |

**Notes referring to the Table**

*General notes*

NOC

Notes *a)* to *e)*

*Specific notes*

NOC

Notes *f)* to *z)*

ADD BDI/KEN/UGA/RRW/TZA/85A16/9

*xx)* Assignable for wideband digital system operation using multiple 25 kHz contiguous channels.     (WRC‑15)

ADD BDI/KEN/UGA/RRW/TZA/85A16/10

*xxx)* Assignable for 50 kHz bandwidth digital system operation using two 25 kHz contiguous channels.     (WRC‑15)

**Reasons:** The channels are identified for regional use of the VDES.

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