**DRAFT!**

***Annex to CRC Decision No 335 of 16 November 2023***

**DECISION No...**

**of ..... 2023**

Amending and supplementing the Rules on the free use of radio frequency spectrum

Pursuant to Article 30(1)(8), Article 32(1)(2) and Article 66a(3), in relation to Article 36(1) and (2) of the Electronic Communications Act,

**THE COMMUNICATIONS REGULATION COMMISSION HAS DECIDED:**

**DRAFT!**

***Annex to CRC Decision No 335 of 16 November 2023***

**§ 1.** Annex 1 to Article 3(1) "Radio frequency spectrum used for electronic communications by radio equipment" shall be amended as follows:

**"Annex 1 to Article 3(1)**

## RADIO FREQUENCY SPECTRUM USED BY RADIO EQUIPMENT AND ELECTRONIC COMMUNICATIONS NETWORKS

| SHORT-RANGE DEVICES | | | | |
|---|---|---|---|---|
| *No* | *Radio frequency band (radio frequency)* | *Hz kHz MHz GHz* | *Attachment* | *No of the Annex to Article 3(2)* |
| 1 | 100 – 148 | Hz | Radio-determination devices | Annex No 2.5 |
| 2 | 100 – 9000 | Hz | Auxiliary auditory devices | Annex No 2.9 |
| 3 | 100 – 9000 | Hz | Inductive devices | Annex No 2.8 |
| 4 | 9 – 90 | kHz | Inductive devices | Annex No 2.8 |
| 5 | 9 – 315 | kHz | Active medical devices for implantation | Annex No 2.11 |
| 6 | 90 – 119 | kHz | Inductive devices | Annex No 2.8 |
| 7 | 119 – 135 | kHz | Inductive devices | Annex No 2.8 |
| 8 | 135 – 140 | kHz | Inductive devices | Annex No 2.8 |
| 9 | 140.0 – | kH | Inductive devices | Annex No |

| | | | | |
|---|---|---|---|---|
| | 148.5 | z | | 2.8 |
| 10 | 148 – 5000 | kHz | Radio-determination devices | Annex No 2.5 |
| 11 | 148.5 – 5000 | kHz | Inductive devices | Annex No 2.8 |
| 12 | 400 – 600 | kHz | Inductive devices | Annex No 2.8 |
| 13 | 442.2 – 450.0 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 14 | 456.9 – 457.1 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 15 | 984 – 7484 | kHz | Transport telematic devices | Annex No 2.4 |
| 16 | 3155 – 3400 | kHz | Inductive devices | Annex No 2.8 |
| 17 | 5000 – 30000 | kHz | Inductive devices | Annex No 2.8 |
| 18 | 5000 – 30000 | kHz | Radio-determination devices | Annex No 2.5 |
| 19 | 6765 – 6795 | kHz | Inductive devices | Annex No 2.8 |
| 20 | 7300 – 23000 | kHz | Transport telematic devices | Annex No 2.4 |
| 21 | 7400 – 8800 | kHz | Inductive devices | Annex No 2.8 |
| 22 | 10200 – 11000 | kHz | Inductive devices | Annex No 2.8 |
| 23 | 13553 – 13567 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 24 | 13553 – 13567 | kHz | Inductive devices | Annex No 2.8 |
| 25 | 13553 – 13567 | kHz | Inductive devices | Annex No 2.8 |
| 26 | 26957 – 27283 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 27 | 26990 – 27000 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 28 | 27040 – | kH | Non-specific short-range devices | Annex No |

| | | | | |
|---|---|---|---|---|
| | 27050 | z | | 2.1 |
| 29 | 27090 – 27100 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 30 | 27140 – 27150 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 31 | 27190 – 27200 | kHz | Non-specific short-range devices | Annex No 2.1 |
| 32 | 26.96 – 27.41 | MHz | SV (Citizen Band) 27 | Annex No 2.13 |
| 33 | 27.09 – 27.10 | MHz | Transport telematic devices | Annex No 2.4 |
| 34 | 29.7 – 47.0 | MHz | Radiomicrophones | Annex No 2.9 |
| 35 | 30 – 130 | MHz | Radio-determination devices | Annex No 2.5 |
| 36 | 30 – 12400 | MHz | Radio-determination devices | Annex No 2.5 |
| 37 | 30.0 – 37.5 | MHz | Active medical devices for implantation | Annex No 2.11 |
| 38 | 34.995 – 35.225 | MHz | Radiomodel control devices | Annex No 2.7 |
| 39 | 38.44375 – 38.56875 | MHz | PMR | Annex No 2.13 |
| 40 | 40.66 – 40.70 | MHz | Radiomodel control devices | Annex No 2.7 |
| 41 | 40.66 – 40.70 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 42 | 84.69375 – 84.81875 | MHz | PMR | Annex No 2.13 |
| 43 | 84.86875 – 84.99375 | MHz | PMR | Annex No 2.13 |
| 44 | 87.5 – 108.0 | MHz | Devices for wireless streaming of audio and multimedia content with analogue radio-frequency modulation (FM) | Annex No 2.9 |

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|---|---|---|---|---|
| 45 | 138.20 – 138.45 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 46 | 150.80625 – 150.81875 | MHz | Radio equipment for tracking animals | Annex No 2.13 |
| 47 | 151.25625 – 151.26875 | MHz | Radio equipment for tracking animals | Annex No 2.13 |
| 48 | 155.4875 – 155.5875 | MHz | Radio equipment for tracking animals | Annex No 2.13 |
| 49 | 169.400 – 169.475 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 50 | 169.400 – 169.475 | MHz | Auxiliary auditory devices | Annex No 2.9 |
| 51 | 169.4000 – 169.4875 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 52 | 169.4875 – 169.5875 | MHz | Auxiliary auditory devices | Annex No 2.9 |
| 53 | 169.4875 – 169.5875 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 54 | 169.5875 – 169.8125 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 55 | 173.965 – 216.000 | MHz | Auxiliary auditory devices | Annex No 2.9 |
| 56 | 174 – 216 | MHz | Radiomicrophones | Annex No 2.9 |
| 57 | 401 – 402 | MHz | Active medical devices for implantation | Annex No 2.11 |
| 58 | 402 – 405 | MHz | Active medical devices for implantation | Annex No 2.11 |
| 59 | 405 – 406 | MH | Active medical devices for | Annex No |

| | | | | |
|---|---|---|---|---|
| | | z | implantation | 2.11 |
| 60 | 430 – 440 | MHz | Devices for obtaining medical data | Annex No 2.2 |
| 61 | 433.05 – 434.79 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 62 | 433.05 – 434.79 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 63 | 434.04 – 434.79 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 64 | 446.0 – 446.2 | MHz | PMR 446 | Annex No 2.13 |
| 65 | 470 – 694 | MHz | Wireless acoustic equipment for PMSE | Annex No 2.9 |
| 66 | 733 – 753 | MHz | Radiomicrophones | Annex No 2.9 |
| 67 | 823 – 832 | MHz | Wireless acoustic equipment for PMSE | Annex No 2.9 |
| 68 | 862 – 863 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 69 | 863 – 865 | MHz | Devices for wireless streaming of audio and multimedia content | Annex No 2.9 |
| 70 | 863 – 865 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 71 | 863 – 868 | MHz | Broadband data transmission devices | Annex No 2.3 |
| 72 | 865 – 868 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 73 | 865 – 868 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 74 | 865 – 868 | MHz | Radio Frequency Identification Devices (RFID) | Annex No 2.10 |
| 75 | 868.0 – 868.6 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 76 | 868.6 – 868.7 | MHz | Alarm systems | Annex No 2.6 |
| 77 | 868.7 – 869.2 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 78 | 869.20 – | MH | Social alarm systems | Annex No |

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|---|---|---|---|---|
| | 869.25 | z | | 2.6 |
| 79 | 869.25 – 869.30 | MHz | Alarm systems | Annex No 2.6 |
| 80 | 869.3 – 869.4 | MHz | Alarm systems | Annex No 2.6 |
| 81 | 869.40 – 869.65 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 82 | 869.65 – 869.70 | MHz | Alarm systems | Annex No 2.6 |
| 83 | 869.7 – 870.0 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 84 | 869.7 – 870.0 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 85 | 870.0 – 874.4 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 86 | 870.0 – 874.4 | MHz | Measuring devices | Annex No 2.2 |
| 87 | 915 – 919.4 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 88 | 916.1 – 918.9 | MHz | Radio Frequency Identification Devices (RFID) | Annex No 2.10 |
| 89 | 917.3 – 918.9 | MHz | Measuring devices | Annex No 2.2 |
| 90 | 917.4 – 919.4 | MHz | Broadband data transmission devices | Annex No 2.3 |
| 91 | 1350 – 1400 | MHz | Radiomicrophones | Annex No 2.9 |
| 92 | 1492 – 1518 | MHz | Radiomicrophones | Annex No 2.9 |
| 93 | 1518 – 1525 | MHz | Radiomicrophones | Annex No 2.9 |
| 94 | 1656.5 – 1660.5 | MHz | Auxiliary auditory devices | Annex No 2.9 |
| 95 | 1785 – 1805 | MHz | Wireless acoustic equipment for PMSE | Annex No 2.9 |
| 96 | 1880 – 1900 | MHz | DECT radio equipment | Annex No 2.13 |
| 97 | 2400.0 – | MH | Non-specific short-range devices | Annex No |

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|---|---|---|---|---|
| | 2483.5 | z | | 2.1 |
| 98 | 2400.0 – 2483.5 | MHz | Broadband data transmission devices | Annex No 2.3 |
| 99 | 2400.0 – 2483.5 | MHz | Radio-determination devices | Annex No 2.5 |
| 100 | 2446 – 2454 | MHz | Radio Frequency Identification Devices (RFID) | Annex No 2.10 |
| 101 | 2446 – 2454 | MHz | Radio Frequency Identification Devices (RFID) | Annex No 2.10 |
| 102 | 2483.5 – 2500.0 | MHz | Devices for obtaining medical data | Annex No 2.2 |
| 103 | 2483.5 – 2500.0 | MHz | Devices for obtaining medical data | Annex No 2.2 |
| 104 | 2483.5 – 2500.0 | MHz | Active medical devices for implantation | Annex No 2.11 |
| 105 | 5150 – 5350 | MHz | Wireless access systems including local radio networks (WAS/RLANs) | Annex No 2.3 |
| 106 | 5250 – 5350 | MHz | Wireless access systems including local radio networks (WAS/RLANs) | Annex No 2.3 |
| 107 | 5470 – 5725 | MHz | Wireless access systems including local radio networks (WAS/RLANs) | Annex No 2.3 |
| 108 | 5725 – 5875 | MHz | Non-specific short-range devices | Annex No 2.1 |
| 109 | 5725 – 5875 | MHz | Measuring devices | Annex No 2.2 |
| 110 | 5795 – 5815 | MHz | Transport telematic devices | Annex No 2.4 |
| 111 | 5855 – 5865 | MHz | Transport telematic devices | Annex No 2.4 |
| 112 | 5865 – 5875 | MHz | Transport telematic devices | Annex No 2.4 |
| 113 | 5875 – 5935 | MHz | Transport telematic devices | Annex No 2.4 |
| 114 | 5945 - 6425 | MHz | Wireless access systems, including indigenous radio networks (WAS/RLANs) | Annex No 2.3 |
| 115 | 4500 – 7000 | MHz | Radio-determination devices | Annex No 2.5 |

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|---|---|---|---|---|
| 116 | 60000 – 85000 | MHz | Radio-determination devices | Annex No 2.5 |
| 117 | 8.5 – 10.6 | GHz | Radio-determination devices | Annex No 2.5 |
| 118 | 9.2 – 9.5 | GHz | Radio-determination devices | Annex No 2.5 |
| 119 | 9.500 – 9.975 | GHz | Radio-determination devices | Annex No 2.5 |
| 120 | 10.5 – 10.6 | GHz | Radio-determination devices | Annex No 2.5 |
| 121 | 13.4 – 14.0 | GHz | Radio-determination devices | Annex No 2.5 |
| 122 | 17.1 – 17.3 | GHz | Radio-determination devices | Annex No 2.5 |
| 123 | 21.65 – 26.65 | GHz | Transport telematic devices | Annex No 2.4 |
| 124 | 24.050 – 24.075 | GHz | Transport telematic devices | Annex No 2.4 |
| 125 | 24.00 – 24.25 | GHz | Non-specific short-range devices | Annex No 2.1 |
| 126 | 24.05 – 24.25 | GHz | Radio-determination devices | Annex No 2.5 |
| 127 | 24.05 – 26.50 | GHz | Radio-determination devices | Annex No 2.5 |
| 128 | 24.05 – 27.00 | GHz | Radio-determination devices | Annex No 2.5 |
| 129 | 24.075 – 24.150 | GHz | Transport telematic devices | Annex No 2.4 |
| 130 | 24.075 – 24.150 | GHz | Transport telematic devices | Annex No 2.4 |
| 131 | 24.15 – 24.25 | GHz | Transport telematic devices | Annex No 2.4 |
| 132 | 57 – 64 | GHz | Radio-determination devices | Annex No 2.5 |
| 133 | 57 – 64 | GHz | Non-specific short-range devices | Annex No 2.1 |
| 134 | 57 – 64 | GHz | Radio-determination devices | Annex No 2.5 |

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|---|---|---|---|---|
| 135 | 57 – 71 | GHz | Broadband data transmission devices | Annex No 2.3 |
| 136 | 57 – 71 | GHz | Broadband data transmission devices | Annex No 2.3 |
| 137 | 57 – 71 | GHz | Broadband data transmission devices | Annex No 2.3 |
| 138 | 61.0 – 61.5 | GHz | Non-specific short-range devices | Annex No 2.1 |
| 139 | 63.72 – 65.88 | GHz | Transport telematic devices | Annex No 2.4 |
| 140 | 75 – 85 | GHz | Radio-determination devices | Annex No 2.5 |
| 141 | 75 – 85 | GHz | Radio-determination devices | Annex No 2.5 |
| 142 | 76 – 77 | GHz | Transport telematic devices | Annex No 2.4 |
| 143 | 76 – 77 | GHz | Transport telematic devices | Annex No 2.4 |
| 144 | 77 – 81 | GHz | Transport telematic devices | Annex No 2.4 |
| 145 | 122.00 – 122.25 | GHz | Non-specific short-range devices | Annex No 2.1 |
| 146 | 122.25 – 123.00 | GHz | Non-specific short-range devices | Annex No 2.1 |
| 147 | 244 – 246 | GHz | Non-specific short-range devices | Annex No 2.1 |
| 148 | Under 3,000 | GHz | Devices using ultra-wideband technology for general application | Annex No 2.12 |
| 149 | Under 3,000 | GHz | Type 1 (LT1) location tracking systems using high band technology | Annex No 2.12 |
| 150 | Under 3,000 | GHz | Devices fitted in motor and railway vehicles using high-band technology | Annex No 2.12 |
| 151 | Under 3,000 | GHz | Transport access control systems using high-band technology | Annex No 2.12 |
| 152 | Under 3,000 | GHz | Devices on board aircraft using high-band technology | Annex No 2.12 |
| 153 | Under 3,000 | GHz | Contact sensor devices for materials using high-band technology | Annex No 2.12 |

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| 154 | Under 3,000 | GHz | Contactless sensor devices for materials using high-band technology | Annex No 2.12 |
| **RADIO EQUIPMENT OPERATING UNDER THE CONTROL OF ELECTRONIC COMMUNICATIONS NETWORKS** | | | | |
| 1 | 68.0 – 87.5 | MHz | Mobile terminals | Annex No 3 |
| 2 | 137 – 138 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 3 | 146 – 174 | MHz | Mobile terminals | Annex No 3 |
| 4 | 148.00 – 150.05 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 5 | 399.90 – 400.05 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 6 | 400.15 – 401.00 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 7 | 401 – 403 | MHz | Terminals for meteorological and Earth monitoring, including animal tracking (Earth-space) | Annex No 3 |
| 8 | 406.1 – 410.0 | MHz | Mobile terminals | Annex No 3 |
| 9 | 410 – 430 | MHz | Mobile terminals | Annex No 3 |
| 10 | 440 – 450 | MHz | Mobile terminals | Annex No 3 |
| 11 | 450 – 470 | MHz | Mobile terminals | Annex No 3 |
| 12 | 694 – 790 | MHz | Mobile terminals | Annex No 3 |
| 13 | 790 – 862 | MHz | Mobile terminals | Annex No 3 |
| 14 | 874.4 – 880 | MHz | Mobile terminals | Annex No 3 |
| 15 | 880 – 915 | MHz | Mobile terminals | Annex No 3 |
| 16 | 919.4 – 925 | MHz | Mobile terminals | Annex No 3 |
| 17 | 925 – 960 | MH | Mobile terminals | Annex No |

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|---|---|---|---|---|
| | | z | | 3 |
| 18 | 1427 – 1517 | MHz | Mobile terminals | Annex No 3 |
| 19 | 1518 – 1525 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 20 | 1525 – 1544 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 21 | 1545 – 1559 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 22 | 1610.0 – 1626.5 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 23 | 1613.8 – 1626.5 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 24 | 1613.8 – 1626.5 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 25 | 1626.5 – 1645.5 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 26 | 1646.5 – 1660.5 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 27 | 1670 – 1675 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 28 | 1710 – 1785 | MHz | Mobile terminals | Annex No 3 |
| 29 | 1805 – 1880 | MHz | Mobile terminals | Annex No 3 |
| 30 | 1900 – 1910 | MHz | Mobile terminals | Annex No 3 |
| 31 | 1920 – 1980 | MHz | Mobile terminals | Annex No 3 |
| 32 | 1980 – 2010 | MHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 33 | 2110 – 2170 | MHz | Mobile terminals | Annex No 3 |
| 34 | 2170 – 2200 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 35 | 2483.5 – 2500.0 | MHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 36 | 2500 – | MH | Mobile terminals | Annex No |

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|---|---|---|---|---|
| | 2690 | z | | 3 |
| 37 | 3400 – 3800 | MHz | Mobile terminals | Annex No 3 |
| 38 | 10.70 – 11.70 | GHz | VSAT terminals (space-Earth) | Annex No 3 |
| 39 | 10.70 – 11.70 | GHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 40 | 10.70 – 11.70 | GHz | Earth stations on board vessels (ESV), (space-Earth) | Annex No 3 |
| 41 | 10.70 – 11.70 | GHz | Earth stations on-board aircraft (AES) operated on geostationary satellite systems (space-Earth) | Annex No 3 |
| 42 | 10.70 – 11.70 | GHz | Transportable ground stations for reporting purposes SNG TES (space-land) | Annex No 3 |
| 43 | 10.70 – 12.75 | GHz | HEST terminals (space-land) | Annex No 3 |
| 44 | 10.70 – 12.75 | GHz | Stationary Earth Stations operating non-geostantial satellite networks (space-Earth) | Annex No 3 |
| 45 | 10.70 – 12.75 | GHz | Earth stations on board aircraft operating on geostationary and non-geostationary satellite networks (space-Earth) | Annex No 3 |
| 46 | 10.70 – 12.75 | GHz | Earth stations in motion (eSIM) mounted on land vehicles, including portable devices operating geostationary satellite networks (space-land) | Annex No 3 |
| 47 | 10.70 – 12.75 | GHz | Ground stations in motion (eSIM) operating non-geostad satellite networks (space-land) | Annex No 3 |
| 48 | 12.50 – 12.75 | GHz | Mobile Earth Stations (space-Earth) | Annex No 3 |
| 49 | 12.50 – 12.75 | GHz | Earth stations on board vessels (ESV), (space-Earth) | Annex No 3 |
| 50 | 12.50 – 12.75 | GHz | Earth stations on-board aircraft (AES) operated on geostationary | Annex No 3 |

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| | | | satellite systems (space-Earth) | |
| 51 | 12.50 – 12.75 | GHz | Transportable ground stations for reporting purposes SNG TES (space-land) | Annex No 3 |
| 52 | 12.75 – 13.25 | GHz | Transportable ground stations for reporting purposes SNG TES (Earth-space) | Annex No 3 |
| 53 | 12.75 – 13.25 | GHz | Earth stations on board aircraft operating on geostationary and non-geostationary satellite networks (Earth-space) | Annex No 3 |
| 54 | 14.00 – 14.25 | GHz | Earth stations in motion (eSIM) mounted on land vehicles, including portable devices operating geostationary satellite networks (Earth-space) | Annex No 3 |
| 55 | 14.00 – 14.25 | GHz | Hest terminals (Earth-space) | Annex No 3 |
| 56 | 14.00 – 14.50 | GHz | Stationary ground stations operating non-geostantial satellite networks (Earth-space) | Annex No 3 |
| 57 | 14.00 – 14.50 | GHz | Ground stations in motion (eSIM) operating non-geostad satellite networks (Earth-space) | Annex No 3 |
| 58 | 14.00 – 14.50 | GHz | Mobile Earth Stations (Earth-space) | Annex No 3 |
| 59 | 14.00 – 14.50 | GHz | Earth stations on board vessels (ESV), (Earth-space) | Annex No 3 |
| 60 | 14.00 – 14.50 | GHz | Earth stations on-board aircraft (AES) operated on geostationary satellite systems (Earth-space) | Annex No 3 |
| 61 | 14.00 – 14.50 | GHz | Transportable ground stations for reporting purposes SNG TES (Earth-space) | Annex No 3 |
| 62 | 14.25 – 14.50 | GHz | VSAT terminals (Earth-space) | Annex No 3 |
| 63 | 17.30 – 20.20 | GHz | Earth stations on mobile platforms ESOMPs operating on geostationary | Annex No 3 |

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| | | | satellite networks (space-Earth) installed on vessels or aircraft | |
| 64 | 17.30 – 20.20 | GHz | Earth stations on mobile platforms ESOMPs operating non-geostad satellite networks (cosmos-Earth) | Annex No 3 |
| 65 | 17.30 – 20.20 | GHz | Earth stations on mobile platforms ESOMPs operating on geostationary satellite networks (space-Earth), mounted on land vehicles, including portable devices used in motion or under temporary suspension | Annex No 3 |
| 66 | 19.70 – 20.20 | GHz | HEST terminals (space-Earth) | Annex No 3 |
| 67 | 24.25 – 27.50 | GHz | Mobile terminals | Annex No 3 |
| 68 | 27.5000 – 27. 9305 | GHz | Earth stations on mobile platforms ESOMPs operating on geostationary satellite networks (Earth-space) mounted on land vehicles, including portable devices used in motion or under temporary suspension | Annex No 3 |
| 69 | 27.5000 – 27.8185 | GHz | Land stations on mobile platforms ESOMPs operating non-geostad satellite networks (Earth-space) | Annex No 3 |
| 70 | 27.5000 – 27.8185 | GHz | Uncoordinated ground stations from fixed satellite radio service (Earth-space) | Annex No 3 |
| 71 | 27.5000 – 30.0000 | GHz | Earth stations on mobile platforms ESOMPs operating on geostationary satellite networks (Earth-space) installed on vessels or aircraft | Annex No 3 |
| 72 | 28.4545 – 28.9385 | GHz | Earth stations on mobile platforms ESOMPs operating on geostationary satellite networks (Earth-space) mounted on land vehicles, including portable devices used in motion or under temporary suspension | Annex No 3 |
| 73 | 28.4545 – 28.9385 | GHz | Land stations on mobile platforms ESOMPs operating non-geostad | Annex No 3 |

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| | | | satellite networks (Earth-space) | |
| 74 | 28.4545 – 28.9385 | GHz | Uncoordinated ground stations from fixed satellite radio service (Earth-space) | Annex No 3 |
| 75 | 29.4625 – 30.0000 | GHz | Earth stations on mobile platforms ESOMPs operating on geostationary satellite networks (Earth-space) mounted on land vehicles, including portable devices used in motion or under temporary suspension | Annex No 3 |
| 76 | 29.4625 – 29.5000 | GHz | Uncoordinated ground stations from fixed satellite radio service (Earth-space) | Annex No 3 |
| 77 | 29.50 – 30.00 | GHz | Hest terminals (Earth-space) | Annex No 3 |
| 78 | 29.50 – 30.00 | GHz | Land stations on mobile platforms ESOMPs operating non-geostad satellite networks (Earth-space) | Annex No 3 |
| **RADIO EQUIPMENT OF ELECTRONIC COMMUNICATION NETWORKS FOR THE PRODUCTION OF PROGRAMMES AND HOLDING OF SPECIAL EVENTS (PMSE), SAP/SAB, INCLUDING ENG/OJ** | | | | |
| 1 | 2010 – 2025 | MHz | Wireless video camera | Annex No 4 |
| 2 | 2010 – 2025 | MHz | Portable video connection | Annex No 4 |
| 3 | 2010 – 2025 | MHz | Mobile video connection (on vehicle or aircraft) | Annex No 4 |
| 4 | 2025 – 2110 | MHz | Wireless video camera | Annex No 4 |
| 5 | 2025 – 2110 | MHz | Portable video connection | Annex No 4 |
| 6 | 2025 – 2110 | MHz | Mobile video connection (on vehicle or aircraft) | Annex No 4 |
| 7 | 2300 – 2400 | MHz | Wireless video camera | Annex No 4 |
| 8 | 2300 – 2400 | MHz | Portable video connection | Annex No 4 |

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| 9 | 2300 – 2400 | MHz | Mobile video connection (on vehicle or aircraft) | Annex No 4 |
| 10 | 10.000 – 10.15 | GHz | Wireless video camera | Annex No 4 |
| 11 | 10.000 – 10.15 | GHz | Portable video connection | Annex No 4 |
| 12 | 10.000 – 10.15 | GHz | Temporary Radio Relay Line for Video Signals | Annex No 4 |
| 13 | 21.2 – 21.4 | GHz | Wireless video camera | Annex No 4 |
| 14 | 21.2 – 21.4 | GHz | Temporary Radio Relay Line for Video Signals | Annex No 4 |
| **RADIO EQUIPMENT OF ELECTRONIC COMMUNICATION NETWORKS FOR THE PROVISION OF MOBILE COMMUNICATION SERVICES ON AIRCRAFT (MCA SERVICES) AND ON BOARD OF VESSELS (MCV SERVICES)** | | | | |
| 1 | 880 – 915 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through GSM 900 and GSM 1800 systems | Annex No 5 |
| 2 | 925 – 960 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through GSM 900 and GSM 1800 systems | Annex No 5 |
| 3 | 1710 – 1785 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through GSM 900 and GSM 1800 systems | Annex No 5 |
| 4 | 1710 – 1785 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through LTE 1800 and LTE 2600 systems | Annex No 5 |
| 5 | 1710 – 1785 | MHz | Radio equipment for the provision of mobile communication services on | Annex No 5 |

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| | | | aircraft (MCA services) | |
| 6 | 1805 – 1880 | MHz | Radio equipment for the provision of mobile communication services on aircraft (MCA services) | Annex No 5 |
| 7 | 1805 – 1880 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through GSM 900 and GSM 1800 systems | Annex No 5 |
| 8 | 1805 – 1880 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through LTE 1800 and LTE 2600 systems | Annex No 5 |
| 9 | 1920 – 1980 | MHz | Radio equipment for the provision of mobile communication services on aircraft (MCA services) | Annex No 5 |
| 10 | 1920 – 1980 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) via UMTS 2100 system | Annex No 5 |
| 11 | 2110 – 2170 | MHz | Radio equipment for the provision of mobile communication services on aircraft (MCA services) | Annex No 5 |
| 12 | 2110 – 2170 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) via UMTS 2100 system | Annex No 5 |
| 13 | 2500 – 2570 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through LTE 1800 and LTE 2600 systems | Annex No 5 |
| 14 | 2620 – 2690 | MHz | Radio equipment for the provision of mobile communication services on board vessels (MCV services) through LTE 1800 and LTE 2600 systems | Annex No 5 |

**§ 2.** In Annex No 2.3 to Article 3(2) “Broadband data transfer devices”, the following amendments shall be made:

1. Table 4c shall be amended as follows:

**"Table 4c**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Application*** | Wireless access systems, including indigenous radio networks (WAS/RLANs) | This set of conditions of use applies only to WAS/RLANs low power indoor (LPI) devices. LPI access point or bridge, powered by a wired connection that are powered by a wired connection must have a built-in antenna and not be battery powered. An LPI customer device, connected to an LPI access point or another LPI customer device can be battery powered. |
| | **3** | ***Radio frequency band*** | 5945-6425 MHz | Limited to indoor use, including in trains with metal coated windows (or similar structures made of material with similar attenuation characteristics) and aircraft. Outdoor use shall not be permitted, including in road vehicles. |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | 23 dBm maximum mean e.i.r.p. for in-band emissions;<br>10 dBm/MHz spectral density of the maximum mean e.i.r.p. for in-band emissions;<br>-22 dBm/MHz spectral density of the maximum average e.i.r.p. for out-of-band emissions that are below 5935 MHz | The average e.i.r.p. value refers to the e.i.r.p. during radio pulse transmission that corresponds to the highest power, if power control is applied. |
| | **7** | ***Transmit power/Power density*** | | |

| | | | | |
|---|---|---|---|---|
| | **8** | ***Access to the channel and rules for occupying it*** | Methods of access to spectrum and mitigation of radio interference, ensuring an appropriate level of performance, shall be used in order to comply with the essential requirements of Directive 2014/53/EU. If harmonised standards or parts thereof which have been mentioned in publications in the Official Journal of the European Union in accordance with Directive 2014/53/EU describe relevant methods, a level of performance at least equivalent to that provided by those methods shall be ensured. | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | 2021/1067/EC<br>ECC/DEC/(20)01<br>EN 303 687 | |
| | **14** | ***Notification Number*** | | |
| | **15** | ***Note*** | | |

**”**

2. Table 6 and Table 7 shall be amended as follows:

**“Table 6**

| | ***No*** | ***Parameter*** | ***Description*** | ***Comment*** |
|---|---|---|---|---|
| | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Broadband data transmission devices | |
| | **3** | ***Radio frequency band*** | 57 – 71 GHz | |
| | **4** | ***Channel distribution*** | | |

| | | | | |
|---|---|---|---|---|
| **Regulatory part** | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 40 dBm e.i.r.p.;<br>23 dBm/MHz e.i.r.p. spectral density;<br>27 dBm maximum transmission power at antenna port/ports | |
| | **8** | ***Access to the channel and rules for occupying it*** | Methods of access to spectrum and mitigation of radio interference, ensuring an appropriate level of performance, shall be used in order to comply with the essential requirements of Directive 2014/53/EU. If harmonised standards or parts thereof which have been mentioned in publications in the Official Journal of the European Union in accordance with Directive 2014/53/EU describe relevant methods, a level of performance at least equivalent to that provided by those methods shall be ensured. | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 301 489-1<br>BDS EN 301 489-17<br>BDS EN 303 722<br>EN 303 753<br>2006/771/EC, as amended, band 75a<br>ERC/REC 70-03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

”

**"Table 7**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| Broadband | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Broadband data transmission devices | This set of usage conditions applies only to fixed outdoor installations. |
| | **3** | ***Radio frequency band*** | 57 – 71 GHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 55 dBm e.i.r.p.;<br>38 dBm/MHz e.i.r.p spectral density;<br>≥ 30 dB transmitting antenna gain | |
| | **8** | ***Access to the channel and rules for occupying it*** | Methods of access to spectrum and mitigation of radio interference, ensuring an appropriate level of performance, shall be used in order to comply with the essential requirements of Directive 2014/53/EU. If harmonised standards or parts thereof which have been mentioned in publications in the Official Journal of the European Union in accordance with Directive 2014/53/EU describe relevant methods, a level of performance at least equivalent to that provided by those methods shall be ensured. | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |

| | | | | |
|---|---|---|---|---|
| | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 301 489-1<br>BDS EN 301 489-17<br>BDS EN 303 722<br>EN 303 753<br>2006/771/EC, as amended, band 75b<br>ERC/REC 70-03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**”**

**§ 3.** In Annex 2.5 to Article 3(2) “Radio Determination Devices”, Table 14 shall be amended as follows:

**“Table 14**

| | ***No*** | ***Parameter*** | ***Description*** | ***Comment*** |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Radio-determination devices | This set of usage conditions applies only to ground-based systems. |
| | **3** | ***Radio frequency band*** | 17.1-17.3 GHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 26 dBm e.i.r.p. | |

| | | | | |
|---|---|---|---|---|
| | **8** | ***Access to the channel and rules for occupying it*** | Methods of access to spectrum and mitigation of radio interference, ensuring an appropriate level of performance, shall be used in order to comply with the essential requirements of Directive 2014/53/EU. If harmonised standards or parts thereof which have been mentioned in publications in the Official Journal of the European Union in accordance with Directive 2014/53/EU describe relevant methods, a level of performance at least equivalent to that provided by those methods shall be ensured. | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 300 440<br>BDS EN 300 440-1<br>BDS EN 300 440-2<br>EN 303 661<br>BDS EN 301 489-1<br>BDS EN 301 489-3<br>2006/771/EC, as amended, strip 65<br>ERC/REC 70-03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**”**

**§ 4.** In Annex 2.7 to Article 3(2) “Radio Model Control Devices”, Table 1 and Table 2 shall be amended as follows:

**"Table 1**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Radiomodel control devices | |
| | **3** | ***Radio frequency band*** | 34.995-35.225 MHz | The bandwidth is allocated only to flying radio-controlled models. |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 100 mW e.r.p. | |
| | **8** | ***Access to the channel and rules for occupying it*** | Channel spacing: ≤ 10 kHz. | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 300 220-1<br>BDS EN 300 220-2<br>BDS EN 300 220-3<br>BDS EN 301 489-1<br>BDS EN 301 489-3<br>ERC/DEC/(01)11<br>ERC/REC 70-03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**"**

**"Table 2**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Radiomodel control devices | |
| | **3** | ***Radio frequency band*** | 40.66-40.70 MHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 100 mW e.r.p. | |
| | **8** | ***Access to the channel and rules for occupying it*** | Channel spacing: ≤ 10 kHz. | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 300 220-1<br>BDS EN 300 220-2<br>BDS EN 300 220-3<br>BDS EN 301 489-1<br>BDS EN 301 489-3<br>ERC/DEC/(01)12<br>ERC/REC 70-03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**”**

**§ 5.** In Annex No 2.9 to Article 3(2), "Radio microphones, auxiliary listening devices, wireless audio and multimedia streaming applications and wireless audio equipment for programme making and special events (PMSE)", Table 8 and Table 9 shall be amended as follows:

**"Table 8**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Wireless acoustic equipment for PMSE | |
| | **3** | ***Radio frequency band*** | 470 – 694 MHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmit power / Power density*** | 50 mW e.r.p. | |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 300 422<br>BDS EN 300 422-1<br>BDS EN 300 422-2<br>BDS EN 300 422-3<br>BDS EN 301 489-1<br>BDS EN 301 489-9<br>ERC/REC 25-10<br>ERC/REC 70-03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |

| | | | | |
|---|---|---|---|---|
| | **15** | ***Note*** | | |

”

**“Table 9**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Radiomicrophones | |
| | **3** | ***Radio frequency band*** | 733-753 MHz | The bandwidth is allocated for radio-microphones capable of adjusting within the bandwidth limits. |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 20 mW e.i.r.p.<br>100 mW e.i.r.p. for radio-microphones designed to be attached and worn on the human body | |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |

| | | | | |
|---|---|---|---|---|
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 300 422<br>BDS EN 300 422-1<br>BDS EN 300 422-2<br>BDS EN 300 422-3<br>BDS EN 301 489-1<br>BDS EN 301 489-9<br>2016/687/EC:<br>ERC/REC 25-10<br>ERC/REC 70-03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**”**

**§ 6.** Annex No 3 to Article 3(2) “Radio equipment operating under the control of electronic communications networks” shall be amended as follows:

**1.** In item 1 “Radio equipment operating under the control of terrestrial electronic communications networks”, Table 1 shall be amended as follows:

**“Table 1**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Mobile terminals | This subclass includes radio equipment of the "receive before transmit" type and operating only under the control of a public electronic communications network. For the operation of this network, it is necessary to authorise the use of radio frequency spectrum.<br>Receive-before-transmit radio equipment is radio equipment that transmits only after receiving a signal from an electronic communications network. |

| | | | | |
|---|---|---|---|---|
| | **3** | ***Radio frequency band*** | 694-790 MHz<br>790 – 862 MHz<br>880 – 915 MHz<br>925 – 960 MHz<br>874.4 – 880 MHz<br>919.4 – 925 MHz<br>1427 – 1517 MHz<br>1710 – 1785 MHz<br>1805 – 1880 MHz<br>1900 – 1910 MHz<br>1920 – 1980 MHz<br>2110 – 2170 MHz<br>2500 – 2690 MHz<br>3400 – 3800 MHz<br>24.25 – 27.50 GHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmit power/Power density*** | | |
| | **8** | ***Access to the channel and rules for occupying it*** | Listen before transmit.<br>They operate under the control of a network. | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 301 511<br>BDS EN 301 908-1<br>BDS EN 301 908-2<br>BDS EN 301 908-4<br>BDS EN 301 908-6<br>BDS EN 301 908-13<br>BDS EN 301 908-16 | |

| | | | | |
|---|---|---|---|---|
| | | | BDS EN 301 908-19<br>BDS EN 301 908-21<br>BDS EN 301 489-1<br>BDS EN 301 489-17<br>BDS EN 301 489-24<br>EN 301 489-52<br>2016/687/EC, ECC/DEC/(15)01<br>2010/267/EC, ECC/DEC/(09)03<br>2009/766/EC, as amended,<br>ECC/DEC/(06)13<br>ECC/DEC/(20)02<br>2015/750/EU, as amended, ECC/DEC/(13)03,<br>ECC/DEC/(17)06<br>2012/688/EC as amended, ECC/DEC/(06)01<br>2008/477/EC as amended, ECC/DEC/(05)05<br>2008/411/EC, as amended, ECC/DEC/(11)06<br>ECC/DEC/(22)01<br>2019/784/EU, as amended, ECC/DEC/(18)06 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**”**

**2.** Point 2 “Radio equipment operating under the control of satellite electronic communications networks” shall be amended as follows:

**2.1.** Table 8 shall be repealed.

**2.2.** Table 9 shall be amended as follows:

**"Table 9**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Fixed satellite | Satellite broadcasting in radio frequency band 11.70-12.50 GHz (space-Earth) |
| | **2** | ***Attachment*** | HEST terminals | |
| | **3** | ***Radio frequency band*** | 10.70-12.75 GHz (space-Earth)<br>19.70-20.20 GHz (space-Earth)<br>14.00-14.25 GHz (Earth-space)<br>29.50-30.00 GHz (Earth-space) | |
| | **4** | ***Channel distribution*** | to be determined by the satellite operator | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | to be determined by the satellite operator | |
| | **6** | ***Direction/Distribution*** | to be determined by the satellite operator | |
| | **7** | ***Transmission power/Power density*** | e.i.r.p. ≤ 60 dBW<br><br>For HEST operating in TDMA networks, the maximum e.i.r.p. depends on the fill factor. (3.3 and 3.4 of ECC Report 272) | These values shall provide field strength in accordance with the high intensity radiated field for the protection of the aircraft as follows:<br>- ≤190 V/m in the radio frequency band 14.00-14.25 GHz;<br>- ≤150 V/m in the radio frequency band 29.50-30.00 GHz.<br>When the antenna is connected to more than one transmitter or the transmitter provides more than one carrying frequency (work with multiple carriers), the level of e.i.r.p. is the sum of all simultaneous emissions from the antenna's main radiation pattern. |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Authorisation regime*** | | The use of earth stations shall be permitted only if they operate a satellite system registered in an ITD system.<br>The use of earth stations operating under the control of satellite systems not registered in the ITU is allowed only when Bulgaria has not expressed disagreement with the use of these systems or has given its consent in the process of international coordination. |
| | **10** | ***Additional essential requirements*** | | |

| | | | | |
|---|---|---|---|---|
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 301 428<br>BDS EN 301 459<br>BDS EN 301 489-1<br>BDS EN 301 489-12<br>ECC Report 272<br>ECC/DEC/(06)03 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**“**

**2.3.** Table 16 shall be amended as follows:

**“Table 16**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Fixed satellite | |
| | **2** | ***Attachment*** | Ground stations in motion (eSIM) operating non-geostad satellite networks | |
| | **3** | ***Radio frequency band*** | 10.70-12.75 GHz (space-Earth)<br>14.00-14.50 GHz (Earth-space) | |
| | **4** | ***Channel distribution*** | to be determined by the satellite operator | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | to be determined by the satellite operator | |
| | **6** | ***Direction/Distribution*** | to be determined by the satellite operator | |

| | | | | |
|---|---|---|---|---|
| | **7** | ***Transmission power/Power density*** | e.i.r.p. ≤ 54.5 dBW | ESIM operates under the control of the Network Control Facility (NCF).<br><br>ESIM mounted on board an aircraft shall stop emissions in the 14,47-14,5 GHz frequency band when in the area of visibility of a radio astronomy station (RAS) making observations in that lane.<br><br>For eSIM mounted on a vessel, the power flow density threshold (PFD) –169 dBW/m²/(150 kHz) shall not be exceeded by more than 2 % of the time in the astronomical observatory area (ITU-R Recommendation RA.769);<br><br>For eSIM mounted on a land vehicle, the power flow density threshold (PFD) – 169 dBW/m²/(150 kHz) shall not be exceeded by more than 2 per cent of the time in the astronomical observatory area (ITU-R RA.769);<br><br>ESIM shall have self-control and automatic mechanisms, either independently or under the control of the Network Control Facility (NCF), to reduce its e.i.r.p. or to discontinue emissions.<br><br>When the antenna is connected to more than one transmitter or the transmitter provides more than one carrying frequency (work with multiple carriers), the level of e.i.r.p. is the sum of all simultaneous emissions from the antenna's main radiation pattern. |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Authorisation regime*** | | The use of earth stations shall be permitted only if they operate a satellite system registered in an ITD system. The use of earth stations operating under the control of satellite systems not registered in the ITU is allowed only when Bulgaria has not expressed disagreement with the use of these systems or has given its consent in the process of international coordination. |

| | | | | |
|---|---|---|---|---|
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 303 980<br>EN 303 981<br>BDS EN 301 489-1<br>BDS EN 301 489-12<br>ECC Report 272<br>ECC/DEC/(18)05 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | Stationary Earth stations using a closed satellite signal tracking system shall work with an algorithm that is resistant to the capture and tracking of signals from neighboring satellites. Earth stations shall immediately terminate their broadcasts when they find that unintended satellite tracking has been carried out or is about to happen. | |

**”**

**2.4.** Table 18 shall be amended as follows:

**“Table 18**

| | ***No*** | ***Parameter*** | ***Description*** | ***Comment*** |
|---|---|---|---|---|
| **Regulator** | **1** | ***Radio Service*** | Fixed satellite | |
| | **2** | ***Attachment*** | Earth stations on mobile platforms ESOMPs operating geostationary satellite networks | |

| | | | | |
|---|---|---|---|---|
| | **3** | ***Radio frequency band*** | For ESOMPs installed on vessels or aircraft:<br>17.30-20.20 GHz (space-Earth)<br>27.5000-30.0000 GHz (Earth-space)<br><br>For ESOMPs mounted on land vehicles, including portable devices used in motion or on temporary suspension:<br>17.30-20.20 GHz (space-Earth)<br>27.5000-27. 9305 GHz (Earth-space)<br>28.4545-28.9385 GHz (Earth-space)<br>29.4625-30.0000 GHz (Earth-space) | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |

| | | | | |
|---|---|---|---|---|
| | **7** | ***Transmission power/Power density*** | — e.i.r.p. ≤ 58.4 dBW for ESOMPs mounted on aircraft operating within the secured aerodrome limits.<br>— e.i.r.p. ≤ 52.4 dBW for ESOMPs operating within secure airport limits.<br>— e.i.r.p. ≤ 60 dBW for ESOMPs operating outside security limits at airports and ESOMPs mounted on vessels<br><br>For ESOMPs operating in TDMA networks, the maximum e.i.r.p. depends on the fill factor (3.3 and 3.4 of ECC Report 272).<br><br>For ESOMPs operating in the radio frequency bands 17.30-19.70 GHz and 27.5000-27.9305 GHz, 28.4545-28.9385 GHz and 29.4625-29.5000 GHz:<br>• the off-axis e.i.r.p. spectral density radiated by the ESOMP in the radio frequency bands 27.9305-28.4445 GHz and 28.9485-29.4525 is limited to –35 dBW/MHz in the direction 3° or less above the local horizontal plane of the ESOMP terminal. This limitation applies by ESOMP terminals on land, in international or domestic waters. Off-axis refers to angles greater than 7° from the axis of the main beam or at an angle greater than the declared minimum elevation angle of ESOMP, whichever is lower.<br>• angle of elevation of the antenna: ≥ 3°.<br>• the power flow density (PFD) in dB ($W/m^2$) of the ground for a reference bandwidth of 14 MHz emitted by ESOMPs mounted on an aircraft in bands 27.9305-28.4445 GHz and 28.9485-29.4525 GHz is:<br>-124.7 for 0° ≤ δ ≤ 0.01°<br>-120.9 + 1.9 log10 (δ) in 0.01° < δ ≤ 0.3°<br>-116.2 + 11.0 log10 (δ) in 0.3° <δ ≤ 1.0°<br>-116.2 + 18.0 log10 (δ) for 1.0° <δ≤ 2.0°<br>-117.9 + 23.7 log10 (δ) for 2.0° <δ≤ 8.0°<br>-96.5 to 8.0° <δ ≤ 90.0°<br>where δ is the angle of arrival of the beam of the earth's surface in degrees. When assessing conformity with the PFD mask, consideration shall be given to the absorption into the atmosphere and any depletion due to the hull of the aircraft.<br>• the threshold value of PFD at the line of greatest low tide, at a height of 20 m above the mean sea level emitted by ESOMPs, mounted on a vessel in bands 27.9305-28.4445 GHz and 28.9485-29.4525 GHz, is ~~–109 dB($W/m^2$) for 14 MHz reference bandwidth.~~ | These values provide 150 V/m field strength, which is in accordance with the high intensity radiated for the protection of the aircraft. |

| | | | | |
|---|---|---|---|---|
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Authorisation regime*** | | The use of earth stations shall be permitted only if they operate a satellite system registered in an ITD system.<br>The use of earth stations operating under the control of satellite systems not registered in the ITU is allowed only when Bulgaria has not expressed disagreement with the use of these systems or has given its consent in the process of international coordination. |
| | **10** | ***Additional essential requirements*** | ESOMPs operate under the control of the Network Control Facility (NCF).<br>ESOMPs shall have a self-control function and an automatic mechanism to reduce e.i.r.p. or disconnect emissions. | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 303 978<br>BDS EN 301 489-1<br>BDS EN 301 489-12<br>ECC Report 272<br>ECC/DEC/(13)01 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | ESOMPs that use a closed satellite signal tracking system shall work with an algorithm that is sustainable for the capture and tracking of adjacent satellite signals. ESOMPs shall immediately cease broadcasting when it detects that unintended satellite tracking has been carried out or is about to occur.<br>Upon detection of an error that may cause harmful interference to stationary and fixed satellite radio services, ESOMPs shall immediately cease broadcasting.<br>ESOMPs operating in band mode 17.30-17.70 GHz are free of protection from interference from BSS feed lines operating in the same bandwidth.<br>ESOMPs operating in radio band mode 17.70-19.70 GHz are without the right to protect against interference from stationary radio stations operating in the same bandwidth. | |

**”**

**2.5.** A new Table 21 shall be inserted after Table 20 with the following text:

**“Table 21**

| | *No* | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Exploring the Earth by satellite<br>Meteorological satellite | |
| | **2** | ***Application*** | Terminals for meteorological and Earth monitoring, including animal tracking | Used to transmit data to geostationary and non-geostationary satellite systems from radio meteorological satellite and Earth exploration satellite services |
| | **3** | ***Radio frequency band*** | 401-403 MHz (Earth-space) | The use of terminals connected to satellite systems operating in accordance with the terms of Recommendation ITU-R SA.2045-0 of the International Telecommunications Union shall be permitted. |
| | **4** | ***Channel distribution*** | to be determined by the satellite operator | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | to be determined by the satellite operator | |
| | **6** | ***Direction/Distribution*** | to be determined by the satellite operator | |
| | **7** | ***Transmit power/Power density*** | | |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Authorisation regime*** | | The use of earth stations shall be permitted only if they operate a satellite system registered in an ITD system.<br>The use of earth stations operating under the control of satellite systems not registered in the ITU is allowed only when Bulgaria has not expressed disagreement with the use of these systems or has given its consent in the process of international coordination. |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |

| | | | | |
|---|---|---|---|---|
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | ETSI EN 302 054<br>ETSI EN 302 054-1<br>Recommendation ITU-R SA.2045-0 | |
| | **14** | ***Notification Number*** | | |
| | **15** | ***Note*** | | |

**”**

**§ 7.** In Annex 4 to Article 3(2) “Radio equipment from electronic communications networks for the production of programmes and making special events (PMSE), SAP/SAB including ENG/OB”, Table 1, Table 2, Table 3 and Table 4 shall be amended as follows:

**“Table 1**

| | | ***Parameter*** | ***Description*** | ***Comment*** |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Wireless video camera | |
| | **3** | ***Radio frequency band*** | 2010 – 2025 MHz<br>2025 – 2110 MHz<br>2300 – 2400 MHz<br>10.00 – 10.15 GHz<br>21.2 – 21.4 GHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmit power/Power density*** | -7 dBW e.i.r.p. for radio frequency bands 2010-2025 MHz, 2025-2110 MHz and 2300-2400<br>6 dBW e.i.r.p. for radio frequency band 10.00-10.15 GHz<br>13 dBW e.i.r.p. for radio frequency band 21.2-21.4 GHz | Service Area: < 500 m |

| | | | | |
|---|---|---|---|---|
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 302 064<br>BDS EN 302 064-1<br>BDS EN 302 064-2<br>BDS EN 301 489-1<br>BDS EN 301 489-28<br>2016/339/EC<br>ERC/REC 25-10 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**Table 2**

| | | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Portable video connection | |
| | **3** | ***Radio frequency band*** | 2010 – 2025 MHz<br>2025 – 2110 MHz<br>2300 – 2400 MHz<br>10.00 – 10.15 GHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 16 dBW e.i.r.p. | Service Area: < 2 km |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 302 064<br>BDS EN 302 064-1<br>BDS EN 302 064-2<br>BDS EN 301 489-1<br>BDS EN 301 489-28<br>2016/339/EC<br>ERC/REC 25-10 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**Table 3**

| | | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Mobile | |
| | **2** | ***Attachment*** | Mobile video connection (of the vehicle or aircraft) | |
| | **3** | ***Radio frequency band*** | 2010 – 2025 MHz<br>2025 – 2110 MHz<br>2300 – 2400 MHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmit power/Power density*** | 10 dBW e.i.r.p. | Service Area: < 10 km |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 302 064<br>BDS EN 302 064-1<br>BDS EN 302 064-2<br>BDS EN 301 489-1<br>BDS EN 301 489-28<br>2016/339/EC<br>ERC/REC 25-10 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

**Table 4**

| | | *Parameter* | *Description* | *Comment* |
|---|---|---|---|---|
| **Regulatory part** | **1** | ***Radio Service*** | Immobile | |
| | **2** | ***Attachment*** | Temporary Radio Relay Line for Video Signals | |
| | **3** | ***Radio frequency band*** | 10.00-10.15 GHz<br>21.2-21.4 GHz | |
| | **4** | ***Channel distribution*** | | |
| | **5** | ***Modulation/Width of the occupied bandwidth*** | | |
| | **6** | ***Direction/Separation*** | | |
| | **7** | ***Transmission power/Power density*** | 40 dBW e.i.r.p. | Service Area: < 80 km |
| | **8** | ***Channel access and occupancy rules*** | | |
| | **9** | ***Permissive mode*** | | |
| | **10** | ***Additional essential requirements*** | | |
| | **11** | ***Allowable frequency planning*** | | |
| **Informational part** | **12** | ***Planned changes*** | | |
| | **13** | ***Reference*** | BDS EN 302 064<br>BDS EN 302 064-1<br>BDS EN 302 064-2<br>BDS EN 301 489-1<br>BDS EN 301 489-28<br>ERC/REC 25-10 | |
| | **14** | ***Notification Number*** | 2021/359/BG | |
| | **15** | ***Note*** | | |

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