

Brussels, XXX [...](2023) XXX draft

COMMISSION IMPLEMENTING DECISION

of XXX

on harmonised conditions for the use of radio spectrum for mobile communication services on board vessels in the Union, repealing Decision 2010/166/EU

(Text with EEA relevance)

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THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Decision No 676/2002/EC of the European Parliament and of the Council of 7 March 2002 on a regulatory framework for radio spectrum policy in the European Community (Radio Spectrum Decision)¹, in particular Article 4(3) thereof,

Whereas:

- (1) Adding 5G connectivity to vessels improves communication services for people travelling, while making use of the latest available technology and ensuring efficient spectrum use. This helps achieve the objectives set out in the 5G Action Plan as well as the Commission's strategy on connectivity as set out in its Communication 'Connectivity for a Competitive Digital Single Market towards a European Gigabit Society'² and updated with its Communication '2030 Digital Compass: the European way for the Digital Decade'³ and Decision (EU) 2022/2481 of the European Parliament and of the Council of 14 December 2022 establishing the Digital Decade Policy Programme 2030⁴.
- (2) Commission Decision 2010/166/EU⁵ harmonised the technical conditions for using radio spectrum in the 900 MHz frequency band (880-915 MHz and 925-960 MHz frequency bands), the 1 800 MHz frequency band (1710-1785 MHz and 1805-1880 MHz frequency bands), the paired terrestrial 2 GHz frequency band (1920-1980 MHz and 2110-2170 MHz frequency bands), and the paired 2.6 GHz frequency band (2500-2570 MHz and 2620-2690 MHz frequency bands). It allowed the operation of mobile communication services on board vessels (MCV services) in the Union with different technologies and set out the applicable harmonised technical conditions.
- (3) Decision 2010/166/EU called on the Member States to keep under review the use of frequency bands by systems that provide MCV services in their territorial seas, in particular with regard to the continued relevance of all the conditions set out in that Decision and to instances of harmful interference. Member States were also required

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OJ L 108, 24.4.2002, p. 1.

² COM(2016) 587.

³ COM(2021) 118.

⁴ OJ L 323, 19.12.2022, p. 4.

⁵ Commission Decision 2010/166/EU of 19 March 2010 on harmonised conditions of use of radio spectrum for mobile communication services on board vessels (MCV services) in the European Union (OJ L 72, 20.3.2010, p. 38).

- to submit a report to the Commission on their findings, and the Commission was required, where appropriate, to review Decision 2010/166/EU.
- (4) On 16 August 2022, the Commission issued a mandate to the European Conference of Postal and Telecommunications Administrations (CEPT), pursuant to Article 4(2) of Decision 676/2002/EC, to study and develop harmonised technical conditions with the aim of including 5G technology to facilitate the deployment of advanced MCV services in the Union.
- (5) In response to that mandate, CEPT adopted Report 83 on 10 March 2023. It provides harmonised technical conditions for non-Active Antenna Systems (non-AAS) 5G New Radio (5G NR) on board vessels in the 1 800 MHz and the paired 2.6 GHz frequency bands.
- (6) The report concludes that similar technical and regulatory conditions that applied to MCV Long Term Evolution (LTE) systems can also be applied to MCV 5G NR non-AAS systems for protecting both LTE non-AAS and 5G NR non-AAS land-based mobile networks.
- (7) The harmonised technical conditions recommended in the report constitute the technical basis for this Decision for non-AAS 5G NR on board vessels in the 1 800 MHz and the paired 2.6 GHz frequency bands. The harmonised technical conditions in Decision 2010/166/EU should be amended accordingly, while pursuing a technology and service neutral approach as set out in Directive (EU) 2018/1972 of the European Parliament and of the Council⁶.
- (8) In the interests of legal consistency and clarity and in line with the better regulation principles, Decision 2010/166/EU, which includes references to Commission Decision 2011/251/EU⁷ that has been repealed by Commission Decision 2022/173/EU⁸, should be repealed and replaced by this Decision.
- (9) For legal clarity, the implementation dates set by Decision 2010/166/EU should be maintained. Similarly, Commission Recommendation 2010/167/EU⁹ should continue to apply with regard to this Decision, as this Decision repeals and replaces Decision 2010/166/EU.
- (10) This Decision cannot be considered to impose obligations on Member States that do not have territorial seas. This is without prejudice to the authorisation of MCV services, which is outside the scope of this Decision, but which may require action by Member States in conformity with EU law in regard to vessels of their nationality.
- (11) MCV technical specifications should remain under review to ensure that they keep up with technological progress and market developments.

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Directive (EU) 2018/1972 of the European Parliament and of the Council of 11 December 2018 establishing the European Electronic Communications Code (OJ L 321, 17.12.2018, p. 36).

Commission Implementing Decision 2011/251/EU of 18 April 2011 amending Decision 2009/766/EC on the harmonisation of the 900 MHz and 1800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (OJ L 106, 27.4.2011, p. 9)

Commission Implementing Decision (EU) 2022/173 of 7 February 2022 on the harmonisation of the 900 MHz and 1800 MHz frequency bands for terrestrial systems capable of providing electronic communications services in the Union and repealing Decision 2009/766/EC (OJ L 28, 9.2.2022, p. 29).

Commission Recommendation 2010/167/EU of 19 March 2010 on the authorisation of systems for mobile communication services on board vessels (MCV services) (OJ L 72, 20.3.2010, p. 42).

(12) The measures provided for in this Decision are in accordance with the opinion of the Radio Spectrum Committee,

HAS ADOPTED THIS DECISION:

Article 1

This Decision lays down harmonised technical conditions for the availability and efficient use of the 900 MHz, 1 800 MHz, paired terrestrial 2 GHz and paired 2.6 GHz frequency bands for systems that provide mobile communication services on board vessels within territorial seas of the Member States in the Union.

Article 2

For the purposes of this Decision, the following definitions shall apply:

- (1) 'mobile communication services on board vessels' (MCV services) means electronic communication services, as defined in Article 2, point (4), of Directive (EU) 2018/1972, provided by an undertaking to enable persons on board a vessel to communicate via public communication networks using a system subject to Article 3 without establishing direct connections with land-based mobile networks;
- (2) 'the 900 MHz frequency band' means the 880-915 MHz frequency band for uplink (terminal transmit, base station receive) and 925-960 MHz frequency band for downlink (base station transmit, terminal receive);
- (3) 'the 1 800 MHz frequency band' means the 1 710-1 785 MHz frequency band for uplink (terminal transmit, base station receive) and 1 805-1 880 MHz frequency band for downlink (base station transmit, terminal receive);
- (4) 'the paired terrestrial 2 GHz frequency band' means the 1 920-1 980 MHz frequency band for uplink (terminal transmit, base station receive) and 2 110-2 170 MHz frequency band for downlink (base station transmit, terminal receive);
- (5) 'the paired 2.6 GHz frequency band' means the 2 500-2 570 MHz frequency band for uplink (terminal transmit, base station receive) and 2 620-2 690 MHz frequency band for downlink (base station transmit, terminal receive);
- (6) 'on a non-interference and non-protected basis' means that MCV services may not cause harmful interference to any other radio-communication service nor can MCV services claim protection against harmful interference originating from other radio-communication services;
- (7) 'territorial sea' is to be understood as defined in the United Nations Convention on the Law of the Sea;
- (8) 'vessel base transceiver station' (vessel-BS) means a mobile pico-cell located on a vessel and supporting mobile systems in compliance with the Annex to this Decision.

Article 3

1. Member States shall make available at least 2 MHz of spectrum in both the uplink direction and in the corresponding paired spectrum in the downlink direction within the 900 MHz and/or 1 800 MHz frequency bands for the mobile systems listed in the Annex that provide MCV services on a non-interference and non-protected basis in their territorial seas.

- 2. Member States shall make available 5 MHz of spectrum in both the uplink direction and in the corresponding paired spectrum in the downlink direction within the paired terrestrial 2 GHz frequency band and within the 1 800 MHz and paired 2.6 GHz frequency bands for the mobile systems listed in the Annex that provide MCV services on a non-interference and non-protected basis in their territorial seas.
- 3. Member States shall ensure that the systems referred to in paragraphs 1 and 2 comply with the conditions and implementation deadlines set out in the Annex.

Article 4

Member States shall monitor the use of frequency bands by systems that provide MCV services in their territorial seas, referred to in Article 3(1) and 3(2), in particular with regard to the continued relevance of the conditions set out in Article 3 and in the Annex, and to instances of harmful interference.

Article 5

Member States shall submit a report to the Commission on their findings with regard to monitoring referred to in Article 4. The European Commission shall, where appropriate, proceed to a review of this Decision.

Article 6

Decision 2010/166/EU is repealed.

Article 7

This Decision is addressed to the Member States.

Done at Brussels,

For the Commission Thierry Breton Member of the Commission