



Ministero dello Sviluppo Economico (Italy)	Malta Communications Authority (MCA)
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Addendum 2 to the Frequency Coordination Agreement between the Administrations of Malta and Italy for the use of radio spectrum in the 174-230 MHz band signed on 11th October 2019

1. Whereas:

- a)** on 11 October 2019, the Administrations of Malta and Italy signed a frequency coordination Agreement for the use of radio spectrum in the 174-230 MHz band (“the Agreement”),
- b)** on 22 January 2020, the Administrations signed an Addendum to the Agreement which has replaced in its entirety the distribution of the digital terrestrial broadcasting frequency blocks to be used in the Exclusive zone (“Addendum 1”),
- c)** Article 2 of the Agreement requires the Administrations to collaborate with the intent of defining the technical criteria in respect of any shared frequency block and additional radio spectrum to that described in Addendum 1.

2. The Administrations agree to use the technical criteria described in Annex 1 of this Addendum as regards the use of any of the shared frequency blocks within the Exclusive zone as set out in Addendum 1 to the Agreement.

3. This Addendum shall be read and construed as an integral part of the Agreement.

4. This Addendum is not modifying any of the articles found within the Agreement.

5. This Addendum shall become effective on the date of the last signature of this Addendum by both Administrations.

Signed electronically.

For the Administration of Malta

For the Administration of Italy

Signed digitally
by Antoine Sciberras
Date: 2022.07.20 09:06

Antoine Sciberras

Chief of Spectrum Management and Technology
Malta Communications Authority

Firmato digitalmente
da Eva Spina
Data: 2022.07.05
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Eva Spina

Director General of
Communication Technologies and Cybersecurity
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Annex 1 – Technical criteria for the use of the shared digital terrestrial broadcasting frequency blocks in the exclusive zone

A. Threshold and power sum values:

The following threshold defines the reference to take into account in the coordination process for DAB assignments and DVT-T assignments, at a height of 10 m above ground level:

$$\text{Threshold}_{\text{Max}} = 36.56 \text{ dB}\mu\text{V/m} + 10 \log (\text{Bandwidth}/1 \text{ MHz}) + f_{\text{corr}}$$

where:

- Bandwidth = 7 MHz for a digital terrestrial television channel (DVB-T / DVB-T2)
- Bandwidth = 1.75 MHz for a digital radio frequency block (DAB / DAB+)
- $f_{\text{corr}} = 30 * \log(F/200 \text{ MHz})$
- F = centre frequency of the television channel or radio frequency block in MHz

The method used to calculate the cumulative interference due to multiple signal sources shall be in accordance with that described in § 3.1 of Annex 4, Section II ('Field-strength calculations') of the GE06 Agreement.

B. Propagation prediction models

Recommendation ITU-R 1546 shall be used to calculate the threshold and power sum values set out in Paragraph 'A' above. For this purpose, a location variability of 50% and a time variability of 1% shall be used. The resolution of any digital terrestrial model used in this regard shall be of 100 meters.

In the event that:

- a) the calculated threshold and power sum values obtained by the Administrations differ, or
- b) the levels of on-air DTT and T-DAB transmissions measured at the Test Points described at Annex 2 is found to exceed the $\text{Threshold}_{\text{Max}}$ limit specified under Paragraph 'A' above,

the Administrations commit themselves to find a specific solution with the aim to comply with the $\text{Threshold}_{\text{Max}}$ limit.

Annex 2 – List of Test Points



Annex%20to%20Addendum%20.xlsx