

UK Interface Requirement 2044

Business Radio Land Mobile Services, covering Business Radio (Area Defined), Business Radio (Technically Assigned) and Business Radio (Light Licence) Authorisations

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References

- EN 301 166-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment for analogue and/or digital communication (speech and/or data) and operating on narrow-band channels and having an antenna connector; Part 2
Harmonised EN covering essential requirements of article 3.2 of the R&TTE Directive
- EN 300 086-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech; Part 2:
Harmonised EN covering essential requirements under article 3.2 of the R&TTE Directive
- EN 300 113-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service; Radio equipment intended for the transmission of data (and/or speech) using constant or non constant envelope modulation and having an antenna connector; Part 2: Harmonised EN covering essential requirements of article 3.2 of the R&TTE Directive
- EN 300 219-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver; Part 2: Harmonised EN covering essential requirements under article 3.2 of the R&TTE Directive
- EN 300 296-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Part 2: Harmonised EN covering essential requirements under article 3.2 of the R&TTE Directive
- EN 300 341-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile service (RP 02); Radio equipment using an integral antenna transmitting signals to initiate a specific response in the receiver; Part 2: Harmonised EN under article 3.2 of the R&TTE Directive
- EN 300 390-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment intended for the transmission of data (and speech) and using an integral antenna; Part 2: Harmonised EN covering essential requirements under article 3.2 of the R&TTE Directive

1. Foreword

- 1.1 The Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE Directive) was implemented in the United Kingdom (UK) on 8 April 2000 by the Radio Equipment and Telecommunications Terminal Equipment Regulations 2000, Statutory Instrument 2000 No. 730. In accordance with Articles 4.1 and 7.2 of Directive 1999/5/EC, this UK Interface Requirement contains the requirements for the licensing and use of Business Radio Land Mobile Services covering Business Radio (Area Defined), Business Radio (Technically Assigned) and Business Radio (Light Licence) authorisations in the specified frequency bands.
- 1.2 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with Directive 1999/5/EC.
- 1.3 It is required by the Wireless Telegraphy Act 2006 that no radio equipment is installed or used in the UK except under the authority of a licence granted by or otherwise exempted by regulations made by Ofcom. It is a condition of such a licence or exemption regulations as appropriate that equipment must meet the minimum requirements specified in this UK Interface Requirement.
- 1.4 The requirements given in the main body of this UK Radio Interface Requirement will apply to the individual licensing of Business Radio Land Mobile Services in the UK.
- 1.5 This UK Radio Interface Requirement will be revised as necessary to follow changes to the available spectrum allocated for Land Mobile Services covered by this Interface Requirement.
- 1.6 All UK Radio Interface Requirements notified under Directive 1998/34/EC will be published and will be made available free of charge from the Ofcom website at <https://www.ofcom.org.uk/spectrum/information>
- 1.7 Further information on UK Radio Interface Requirements can be obtained from the contact details given in the back of this document.

2. Minimum equipment requirements for operation within the UK

- 2.1 The minimum requirements in this document are made for reasons related to the effective and appropriate use of the radio spectrum, in particular maximising spectrum utilisation.
- 2.2 This UK Radio Interface Requirement gives a high level description of how the spectrum in the UK is used for Business Radio Land Mobile Services covering Business Radio (Area Defined), Business Radio (Technically Assigned) and Business Radio (Light Licence) authorisations. It does not prescribe technical interpretation of the 'essential requirements' of Directive 1999/5/EC.
- 2.3 This UK Radio Interface Requirement stipulates the necessary equipment parameters for the licensed use of radio equipment in the UK covered by Business Radio (Area Defined), Business Radio (Technically Assigned) and Business Radio (Light Licence) authorisations. Table 3.1 contain the relevant equipment parameters. These together with the 'essential requirements' detailed in Article 3.2 of Directive 1999/5/EC constitute the minimum equipment requirements for Business Radio Land Mobile Services, covering Business Radio (Area Defined), Business Radio (Technically Assigned) and Business Radio (Light Licence) authorisations within the UK.
- 2.4 The technical parameters specified in the UK Radio Interface Requirement are applied for use by Business Radio services.
- 2.5 This UK Radio Interface Requirement gives the necessary technical information which allows access to Business Radio spectrum.
- 2.6 The planning of the spectrum is given in the Ofcom Technical Frequency Assignment Criteria (TFAC) document for Business Radio which is stated in Table 3.1 of this document.

Minimum equipment requirements

Table 3.1: Minimum equipment requirements for the use of Business Radio Land Mobile Services.

Mandatory (1-9)		
1	Frequency band (or bands)	132.977 – 133.977 kHz 146.205 – 147.205 kHz 26.22500 – 49.49375 MHz 55.75000 – 68.00000 MHz 68.08125 – 87.49375 MHz 137.96250 – 165.04375 MHz 165.04375 – 173.09375 MHz 177.20625 – 191.49375 MHz 425.00625 – 449.49375 MHz 450.00625 – 466.06250 MHz
2	Radio service	MOBILE
3	Application	Land Mobile Services
4	Channelling modulation	N/A
5	Maximum transmit power limit ⁴	100Watts ¹ /50Watts ² /25Watts ³ ERP (base station) 25Watts ^{1,2,3} ERP (mobile station)
6	Channel occupation rules	N/A
7	Duplex type/separation	Various across all the Business Radio frequency bands e.g. 8.7125MHz, 10MHz, 13.5MHz
8	Licensing Regime	Licensed
9	Additional essential requirements	N/A
Informative (10-13)		
10	Frequency planning assumptions	Business Radio frequency planning can be found in the Ofcom Technical Frequency Assignment Criteria (TFAC) ⁴

¹ For 25kHz channel bandwidth

² For 12.5kHz channel bandwidth

³ For 6.25kHz channel bandwidth

⁴ Refer to the Ofcom TFAC (section 2)

https://www.ofcom.org.uk/data/assets/pdf_file/0023/59432/ofw164.pdf for the maximum power limits applied to the Light Licence classes

11	Reference	EN 301 166-2, EN 300 086-2, EN 300 113-2, EN 300 219-2, EN 300 296-2, EN 300 341-2, EN 300 390-2
12	Remarks	Authorisation from Ofcom will be needed to use some frequencies in the frequency bands, as not all frequencies within the frequency bands are available for licensing.
13	Notification Number	2008/398/UK

Section 4

Contact details

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Section 5

Document History

Version	Date	Changes
Draft V1.0	September 2008	Draft Published
V1.0	January 2009	Document published
V1.1	May 2016	Minor cosmetic changes, no changes to policy
V1.2	August 2017	Minor cosmetic changes, no changes to policy