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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 Radio Equipment Directive (Directive 2014/53/EU)
- 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 Radio Equipment Directive (Directive 2014/53/EU)
- 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 Radio Equipment Directive (Directive 2014/53/EU)
- 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 Radio Equipment Directive (Directive 2014/53/EU)
- 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 Radio Equipment Directive (Directive 2014/53/EU)
- 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 Radio Equipment Directive (Directive 2014/53/EU)
- 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 Radio Equipment Directive (Directive 2014/53/EU)
- EN 300 224-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); On-site paging service; Part 2: Harmonized EN under article 3.2 of the Radio Equipment Directive (Directive 2014/53/EU)

1. Foreword

- 1.1 The Radio Equipment Directive (Directive 2014/53/EU) was implemented in the United Kingdom (UK) by the Radio Equipment Regulations 2017. In accordance with Articles 8 and 7 of Directive 2014/53/EU, 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 2014/53/EU.
- 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 2015/1535/EU will be published and will be made available free of charge from the Ofcom web- site at. <https://www.ofcom.org.uk/spectrum/information>
- 1.7 Further information on this UK Radio Interface Requirement can be obtained from the technical enquiry contact given on 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 2014/53/EU.
- 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 2014/53/EU 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 kHz – 133.977 kHz 146.205 kHz – 147.205 kHz 26.22500 MHz – 49.49375 MHz 55.75000 MHz – 68.00000 MHz 68.08125 MHz – 87.49375 MHz 137.96250 MHz – 165.04375 MHz 165.04375 MHz – 173.09375 MHz 177.20625 MHz – 207.49375 MHz 425.00625 MHz – 449.49375 MHz 450.00625 MHz – 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. 8.7125 MHz, 10 MHz, 13.5 MHz |
| 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

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, EN 300 224-2 |
| 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 |
| V2.0 | January 2018 | Replaced R&TTE Directive 1999/5/EC and Directive 98/34/EC with Radio Equipment Directive and Directive (EU) 2015/1535 respectively. Minor editorials |