

UK Interface Requirement 2046

**For: Spectrum Access Devices operating in the
1785 – 1805 MHz band**

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Section 1

References

None

Section 2

Foreword

- 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 Spectrum Access Devices in the specified frequency bands.
- 2.1 Requirement contains the requirements for the licensing and use of Spectrum Access Devices in the specified frequency bands.
 - 2.2 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with Directive 2014/53/EU.
 - 2.3 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, in order to be installed or used in the UK, the equipment must meet the minimum requirements specified in this UK Interface Requirement for the stated equipment types and for the stated frequency bands. Nothing in this UK Interface Requirement shall preclude equipment from being placed on the market in the UK that complies with the 'essential requirements' specified in Directive 2014/53/EU.
 - 2.4 The requirements given in the main body of this UK Radio Interface Requirement will apply to the licensing of Spectrum Access Devices in the band 1785 MHz – 1805 MHz.
 - 2.5 This UK Radio Interface Requirement will be revised as necessary, for example to follow:
 - i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation;
 - and
 - ii) changes to the available spectrum allocated for Spectrum Access Devices in the band 1785 MHz – 1805 MHz.
 - 2.6 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 <http://www.ofcom.org.uk>
 - 2.7 Further information on this UK Radio Interface Requirement can be obtained from the technical enquiry contact given at the back of this document.

Section 3

Minimum requirements for operation within the UK

- 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.
- 3.1 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.
 - 3.2 This UK Radio Interface Requirement gives a high level description of how the spectrum in the UK¹ is used for Spectrum Access Devices in the 1785 MHz – 1805 MHz band. It does not prescribe technical interpretation of the ‘essential requirements’ of Directive 2014/53/EU.
 - 3.3 This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of in the UK¹. Tables 3.1 and 3.2 contain the relevant equipment parameters. These taken together with the ‘essential requirements’ detailed in Article 3.2 of Directive 2014/53/EU constitute the minimum requirements for Spectrum Access Devices in the 1785 MHz– 1805 MHz band within the UK. Nothing in this UK Interface Requirement shall preclude equipment from being placed on the market in the UK that complies with the ‘essential requirements’ specified in Directive 2014/53/EU
 - 3.4 The technical parameters specified in the UK Radio Interface Requirement are applied to achieve the desired level of compatibility within the Spectrum Access Devices in the 1785 MHz – 1805 MHz band and with other radiocommunications services, whilst promoting enterprise, innovation and
 - 3.5 This UK Radio Interface requirement provides the necessary technical information which facilitates access to the Spectrum Access Devices in the 1785 MHz – 1805 MHz band, spectrum, by making clear the assumptions that are made in planning the use of the Spectrum Access Devices in the 1785 MHz – 1805 MHz band, spectrum in the UK. It is not the intention of this UK Radio Interface Requirement to duplicate or impose any additional ‘essential requirements’ of the Directive 2014/53/EU on products. Any specified parameters within this document are for the purpose of identifying product options and not as a national de facto product requirement

Section 3

Minimum requirements for the use of: Spectrum Access Devices, operating in the 1785 MHz – 1805 MHz band			
Mandatory (1-9)			
1	Frequency band (MHz)	1785 MHz – 1805 MHz (See Note-1)	
2	Radio service	TERRESTRIAL SERVICE	
3	Application	Any (See Note-2)	
4	Channelling/modulation	Any permitted	
5	Transmit power limit	Power limit for the device is dictated by the equipment (See Note-3)	
6	Channel occupation rules	N/A	
7	Duplex type/separation	TDD/FDD	
8	Licensing regime	Spectrum block on a regional basis. Tradable licence.	
9	Additional essential requirements (art. 3.3)	N/A	
Informative (10-14)			
10	Frequency planning assumptions	The in band eirp of an individual system shall be 56 dBm/MHz. For an individual system with it's necessary bandwidth within the limits shown in 1 above, which has emissions that are outside those limits in 1 above, the measured limit shall be -126dBm/100kHz at a distance of 20 metres (See Note-4)	
11	Reference	N/A	
12	Remarks	Note-1:	The frequency limit shown is that for the necessary bandwidth for an individual device emission as defined in ITU-R Recommendation ITU-R SM.328.
		Note-2:	The area in which use is permitted is contained within the authorisation/licence document applicable to the band.
		Note-3:	The EIRP of the individual systems will be dictated by the authorisation / licence document applicable to the band.
		Note-4:	For some system deployment situations, the EIRP may need to be reduced in certain directions for the purposes of facilitating coexistence between operators.
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Section 4

Additional performance parameters

(Informative)

None

Section 5

Contact details

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Section 6

Document history

Version	Date	Changes
1.0	April 2006	Publication of Draft
1.1	August 2006	Publication of final text
1.2	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