

DRAFT

UK Interface Requirement 2046

For: Spectrum Access 1785 – 1805 MHz, Devices

Please note: This document has been notified to the European Commission in draft, as required by Directive 98/34/EC on Standards and Technical Regulations. A standstill period of three months must be observed before it is officially adopted. Therefore, while the UK intends to adopt this measure “as is” on the standstill end date, comments made during this period will have to be taken into account and may result in amendments.

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Section 1

References

Details on how to obtain access to the spectrum noted within this IR are shown at;

Note: <http://www.ofcom.org.uk/radiocomms/isu/ukpfa/intro>

UK PFA “UK Plan for Frequency Authorisation”

Section 2

Foreword

2.1	The Radio Equipment and Telecommunications Terminal Equipment Directive 99/5/EC (R&TTE Directive) was implemented in the United Kingdom (UK) on the 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 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 1999/5/EC.
2.3	It is required by the Wireless Telegraphy Act 1949 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 1999/5/EC.
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 – 1805 MHz.
2.5	<p>This UK Radio Interface Requirement will be revised as necessary, for example to follow:</p> <ul style="list-style-type: none"> <li data-bbox="319 1209 1359 1310">i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation; <li data-bbox="319 1355 1359 1400">and <li data-bbox="319 1433 1359 1500">ii) changes to the available spectrum allocated for Spectrum Access Devices in the band 1785 – 1805 MHz.
2.6	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 http://www.ofcom.org.uk/radiocomms/ifi/tech/interface_req/
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 UK¹

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 UK ¹ is used for Spectrum Access Devices in the 1785 – 1805 MHz band. It does not prescribe technical interpretation of the ‘essential requirements’ of Directive 1999/5/EC.
3.3	This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of in the UK ¹ . 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 1999/5/EC constitute the minimum requirements for Spectrum Access Devices in the 1785 – 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 1999/5/EC.
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 – 1805 MHz band and with other radiocommunications services, whilst promoting enterprise, innovation and competition.
3.5	This UK Radio Interface requirement provides the necessary technical information which facilitates access to the Spectrum Access Devices in the 1785 – 1805 MHz band, spectrum, by making clear the assumptions that are made in planning the use of the Spectrum Access Devices in the 1785 – 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 1999/5/EC 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

¹ For the purposes of this document, devices compliant with this Interface Requirement are permitted to be placed on the market in the UK. However, authorisations for system spectrum use is limited to regional areas within the UK.

Section 3

Minimum requirements for the use of: Spectrum Access Devices, operating in the 1785 – 1805 MHz band		
Mandatory (1-9)		
1	Frequency band (MHz)	1785 – 1805 MHz Note-1
2	Radio service	TERRESTRIAL SERVICE
3	Application	Any Note-2
4	Channelling/modulation	Any permitted
5	Transmit power limit	Power limit for the device is dictated by the equipment 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. Co-ordination and site clearance procedures managed by the National Frequency Assignment Panel (NFAP)
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 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. This authorisation regime is not currently enacted [This will be amended once the regulations are in place] Co-ordination and site clearance considerations may impose additional restrictions on the maximum system eirp allowed on specific frequencies, directions and locations.
		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.
13	Notification number	98/34/EC Notification Number: 2006/xxx/UK
14	Additional	N/A.

Section 4

Additional performance parameters

(informative)

None:

Section 5

Contact details

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Section 6

Document history

Version	Date	Changes
1.0	Apr 2006	Publication of Draft