

UK Interface Requirement 2065

**Spectrum Access in the bands 412 to 414 MHz paired with
422 to 424 MHz**

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Section 1

References

Spectrum Regulatory

[1]	None	
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Spectrum Standardisation

[2]	None	
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Documents listed above are not produced by Ofcom, therefore interested parties should source the documentation by their own means.
For information;
Government Legislation can be obtained from;
<http://www.hms0.gov.uk/>
The ETSI website for technical standard can be obtained from;
<http://www.etsi.org>

Note: Ofcom is not responsible for the content of external internet sites

Details on how to obtain access to the spectrum noted within this IR are shown at;
<http://spectruminfo.ofcom.org.uk/spectrumInfo/ukpfa>

UK PFA "UK Plan for Frequency Authorisation

Section 2

Foreword

2.1	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 [Spectrum Access] 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 in the bands 412 to 414 MHz paired with 422 to 424 MHz.
2.5	<p>This UK Radio Interface Requirement will be revised as necessary, for example to take into account:</p> <ul style="list-style-type: none">i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation;ii) changes to the available spectrum allocated for Spectrum Access in the bands 412 to 414 MHz paired with 422 to 424 MHz; <p>and</p> <ul style="list-style-type: none">iii) the adoption of appropriate European Harmonised Standards.
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

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 is used for Spectrum Access in the bands 412 to 414 MHz paired with 422 to 424 MHz. 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 usage parameters for the licensing of Spectrum Access in the bands 412 to 414 MHz paired with 422 to 424 MHz in the UK. Table 3.1 contains the relevant usage 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 in the bands 412 to 414 MHz paired with 422 to 424 MHz 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 for Spectrum Access in the bands 412 to 414 MHz paired with 422 to 424 MHz 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 bands 412 to 414 MHz paired with 422 to 424 MHz, by making clear the assumptions that are made in planning the use of this 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.

Table 3.1 Minimum requirements for Spectrum Access in the bands 412 to 414 MHz paired with 422– 424 MHz

Mandatory Elements (1-10)		
1	Frequency bands	412 to 414 MHz paired with 422 to 424 MHz These frequency bands are split into four paired blocks as follows: Please note that the necessary bandwidth of any transmission (as defined in ITU-R Recommendation ITU-R SM.328) must fall entirely within one of the four paired blocks defined above.
2	Radio service	Mobile Service
3	Application	Spectrum Access
4	Channelling modulation	Not specified
5	Transmit power limit	The maximum EIRP within the lower frequency band of any of the blocks defined in 1 above shall be 42 dBm. The maximum EIRP within the upper frequency band of any of the blocks defined in 1 above shall be 47 dBm/25 kHz. In addition, the maximum EIRP shall be 56 dBm.
6	Channel occupation rules	Not specified
7	Duplex type/ separation	Not specified
8	Licensing regime	WT Act licence required
9	Additional essential requirements (art. 3.3)	-
10	Frequency planning assumptions	
Informative (11-14)		
11	Reference	-
12	Remarks	-
13	Notification number	2015/1535/EU Notification Number: 2006/341/UK

Section 4

Additional performance parameters

(informative)

None:

Section 5

Contact details

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Section 6

Document history

Version	Date	Changes
1.0	July 2006	first draft
2.0	May 2007	amended to address EC opinion
3.0	January 2018	Replaced R&TTE Directive 1999/5/EC and Directive 98/34/EC with Radio Equipment Directive 2014/53/EU and Directive (EU) 2015/1535 respectively. Minor editorials