

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.hmsso.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://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] 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 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"> <li data-bbox="316 1240 1361 1352">i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation; <li data-bbox="316 1397 1361 1464">ii) changes to the available spectrum allocated for Spectrum Access in the bands 412 to 414 MHz paired with 422 to 424 MHz; <p style="text-align: center;">and</p> <ul style="list-style-type: none"> <li data-bbox="316 1576 1361 1621">iii) the adoption of appropriate European Harmonised Standards.
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 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 1999/5/EC.
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 1999/5/EC 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 1999/5/EC.
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 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

Section 3

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	<p>412 to 414 MHz paired with 422 to 424 MHz</p> <p>These frequency bands are split into four paired blocks as follows:</p> <table border="1"> <thead> <tr> <th>Block</th> <th>Lower frequency band</th> <th>Upper frequency band</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>412.0 – 412.5 MHz</td> <td>422.0 – 422.5 MHz</td> </tr> <tr> <td>B</td> <td>412.5 – 413.0 MHz</td> <td>422.5 – 423.0 MHz</td> </tr> <tr> <td>C</td> <td>413.0 – 413.5 MHz</td> <td>423.0 – 423.5 MHz</td> </tr> <tr> <td>D</td> <td>413.5 – 414.0 MHz</td> <td>423.5 – 424.0 MHz</td> </tr> </tbody> </table> <p>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.</p>	Block	Lower frequency band	Upper frequency band	A	412.0 – 412.5 MHz	422.0 – 422.5 MHz	B	412.5 – 413.0 MHz	422.5 – 423.0 MHz	C	413.0 – 413.5 MHz	423.0 – 423.5 MHz	D	413.5 – 414.0 MHz	423.5 – 424.0 MHz
Block	Lower frequency band	Upper frequency band															
A	412.0 – 412.5 MHz	422.0 – 422.5 MHz															
B	412.5 – 413.0 MHz	422.5 – 423.0 MHz															
C	413.0 – 413.5 MHz	423.0 – 423.5 MHz															
D	413.5 – 414.0 MHz	423.5 – 424.0 MHz															
2	Radio service	Mobile Service															
3	Application	Spectrum Access															
4	Channelling modulation	Not specified															
5	Transmit power limit	<p>The maximum EIRP within the lower frequency band of any of the blocks defined in 1 above shall be 42 dBm.</p> <p>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.</p>															
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	98/34/EC 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