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IR [...] - UK Interface Requirement [...]

**Licence exempt White Space Device operating in
470 MHz to 790 MHz band**

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Section 1

References

[1]	ETSI EN 301 598 V1.1.1 (2014-04)	White Space Devices (WSD); Wireless Access Systems operating in the 470 MHz to 790 MHz TV broadcast band; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
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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.
- 2.2 In accordance with Articles 4.1 and 7.2 of Directive 1999/5/EC, this UK Interface Requirement contains minimum requirements for the establishment, installation and use of licence exempt White Space Devices in the UK in the 470 MHz to 790 MHz band.
- 2.3 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with Directive 1999/5/EC.
- 2.4 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 1999/5/EC.
- 2.5 The requirements given in the main body of this UK Radio Interface Requirement will apply to the licence exemption of White Space Devices in the 470 MHz to 790 MHz band.
- 2.6 This UK Radio Interface Requirement will be revised as necessary, for example to follow
 - i) future 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 for White Space Devices.
- 2.7 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 web-site at <http://stakeholders.ofcom.org.uk/spectrum/spectrum-management/research-guidelines-tech-info/interface-requirements/>.
- 2.8 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 and avoidance of harmful interference.
- 3.2 This UK Radio Interface Requirement gives a high level description of how the radio spectrum in the UK is used by White Space Devices in the 470 MHz to 790 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 licence exemption of White Space Devices in the 470 MHz to 790 MHz band within the UK. Table 3.1, Table 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 the use of WSDs in the 470 MHz to 790 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 minimum requirements specified in the UK Radio Interface Requirement are applied to achieve the desired level of compatibility of White Space Devices operating in the 470 MHz to 790 MHz band with other radiocommunication services in the band and adjacent to the band, whilst promoting enterprise, innovation and competition.
- 3.5 In this document, the following terms shall have the following meanings:
- **Designated Database** means a database which is able to provide information on the availability of TV white spaces to white space devices and which has been listed in Schedule 1 of the Wireless Telegraphy (White Space Devices) (Exemption) Regulations 2015;
 - **Master Device**: means wireless telegraphy stations or wireless telegraphy apparatus which are capable of communicating with and obtaining operational parameters from a Designated Database for the purpose of transmitting within the frequency band 470 MHz to 790 MHz.
 - **Slave Device**: means wireless telegraphy stations or wireless telegraphy apparatus which are capable of transmitting within the frequency band 470 MHz to 790 MHz after receiving slave operational parameters from a Master Device.

- **White Space Device:** means wireless telegraphy stations or wireless telegraphy apparatus which transmit within the frequency band 470 MHz to 790 MHz and which are Master Devices or Slave Devices.

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Table 3.1: Minimum requirements for the use of Master Devices and Slave Devices

Mandatory (1-10)		
1	Frequency band(s)	470 MHz to 790 MHz
2	Radiocommunication Service	Mobile service or fixed service
3	Application	TRA-ECS (Terrestrial radio applications capable of providing electronic communications services)
4	Channelling	Specified by a Designated Database
5	Modulation / Occupied bandwidth	Not specified
6	Direction / Separation	Not specified
7	Maximum Transmit Power / Power Density	Specified by a Designated Database but in all cases subject to a maximum limit of 36 dBm/(8 MHz)
8	Channel access and occupation rules	Specified by a Designated Database
9	Authorisation regime	Licence exempt
10	Additional essential requirements	Not applicable
Informative (11-13)		
11	Frequency planning assumptions	Not applicable
12	Planned changes	Not applicable
13	Reference	ETSI EN 301 598
14	Notification	Year/number/UK
15	Remarks	Not specified

Section 4

Contact details

Ofcom, Riverside House, 2a Southwark Bridge Road, London, SE1 9HA

Technical enquiries to:

- Tel: XXX
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- Email: XXX
- Website: <http://www.ofcom.org.uk/>

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Section 5

Document history

Version	Date	Changes
0.1	[]	[Notified to European Commission]

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