



IR 2086 - UK Interface Requirement 2086

**Safety Related Applications of Intelligent Transport
Systems**

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Section 1

References

- 1.1 EN 302 571 Intelligent Transport Systems (ITS); Radiocommunications equipment operating in the 5 855 MHz to 5 925 MHz frequency band; Harmonized EN covering the essential requirements of article 3.2 of the Radio Equipment Directive (Directive 2014/53/EU)
- 1.2 EN 302 665 Intelligent Transport Systems (ITS); Communications Architecture
- 1.3 2008/671/EC Commission Decision of 5 August 2008 on the harmonised use of radio spectrum in the 5875 MHz – 5905 MHz band for safety-related applications of Intelligent Transport Systems (ITS)

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 Safety related applications of Intelligent Transport Systems (ITS) operating 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 Safety Related Applications of Intelligent Transport Systems and not falling within the scope of Decision 2004/71 /EC.
- 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 Safety Related Applications of Intelligent Transport Systems.
- 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://stakeholders.ofcom.org.uk/spectrum/technical/interface-requirements/>.
- 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 Safety Related Applications of Intelligent Transport Systems. 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 exemption from licensing of Safety Related Applications of Intelligent Transport Systems in the UK. Table 3.1 contains 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 Safety Related Applications of Intelligent Transport Systems, 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 Safety Related Applications of Intelligent Transport Systems 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 spectrum for Safety Related Applications of Intelligent Transport Systems, by making clear the assumptions that are made in planning the use of spectrum for Safety Related Applications of Intelligent Transport Systems 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 the use of Safety related applications of Intelligent Transport Systems (ITS) operating in the 5875 MHz to 5905 MHz frequency band

Mandatory (1-10)		
1	Frequency band	5875 MHz to 5905 MHz
2	Radiocommunication Service	Fixed / Mobile
3	Application	Intelligent Transport Systems
4	Channelling	N/A
5	Modulation / Occupied bandwidth	N/A
6	Direction / Separation	N/A
7	Maximum Transmit Power / Power Spectral density	33 dBm e.i.r.p. / 23 e.i.r.p. dBm/MHz
8	Channel access and occupation rules	Techniques to mitigate interference that provide at least equivalent performance to the techniques described in ETSI standard EN 302 571. EN 302 571 requires a transmitter power control (TPC) range of at least 30 dB.
9	Authorisation regime	Licence exempt
10	Additional essential requirements	N/A
Informative (11-13)		
11	Frequency planning assumptions	N/A
12	Planned changes	N/A
13	Reference	EN 302 571, EN 302 665, 2008/671/EC
14	Notification	2011/192/UK
15	Remarks	

Section 4

Additional performance parameters

(informative)

None specified

Section 5

Contact details

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Section 6

Document history

Version	Date	Changes
1.0	April 2011	Draft Published
1.1	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