



# IR 2095 - UK Interface Requirement 2095 High Duty Cycle Network Relay Points (NRPs)

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## Section 1

# References

- 1.1 EN 303 204-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Network Based Short Range Devices (SRD); Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods
- 1.2 EN 300 204-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Network Based Short Range Devices (SRD); Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the Radio Equipment Directive (Directive 2014/53/EU)

## Section 2

# Foreword

- 2.1 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. This document contains minimum requirements for the **establishment, installation and use** of licensed higher duty cycle Network Relay Points (NRPs) in the UK in the specified frequency bands.
- 2.2 The Radio Equipment Directive (Directive 2014/53/EU) was implemented in the United Kingdom (UK) by the Radio Equipment Regulations 2017 (the “RED Regulations”).
- 2.3 Nothing in these UK Radio Interface Requirements shall preclude the need for equipment to comply with Directive 2014/53/EU or the RED Regulations. This document does not prescribe technical interpretation of the ‘essential requirements’ of Directive 2014/53/EU. Nothing in these UK Interface Requirements shall preclude equipment from being **placed on the market** in the UK if it complies with the ‘essential requirements’ specified in Directive 2014/53/EU.
- 2.4 The requirements in these UK Radio Interface Requirements are made for reasons related to the effective and appropriate use of the radio spectrum in the UK, in particular maximising spectrum utilisation. These UK Radio Interface Requirements will be revised as necessary, for example to take account of:
  - 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 for the use of licence exempt devices.
- 2.5 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>
- 2.6 Further information on these UK Radio Interface Requirements 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 following Table is the UK Radio Interface Requirements for higher duty cycle Network Relay Points (NRPs). This Table is to be interpreted in accordance with Sections 2 and 3 of this document.
- 3.2 The “Normative Part” of the Table, including comments, sets out minimum requirements relating to that Interface Requirement. Unless otherwise stated, terrestrial use only is permitted.
- 3.3 The “Informative Part” of the Table is not a part of the minimum requirements for that Interface Requirement. It gives a reference for relevant technical standards.
- 3.4 References to documents in the form “EN 111 111” are references to standards published by ETSI.
- 3.5 In this document, the following words shall have the following meanings:
  - i) “e.i.r.p.” means equivalent isotropic radiated power;
  - ii) “GHz” means gigahertz;
  - iii) “mW” means milliWatt;

**Table 3.1: Minimum requirements for the use of: - Higher duty cycle Network Relay Points (NRPs)**

Mandatory (1-10)		
1	Frequency band(s)	870 – 873 MHz
2	Radiocommunication Service	N/A
3	Application	Network Relay Point
4	Channelling	≤200 kHz
5	Modulation / Occupied bandwidth	
6	Direction / Separation	
7	/Maximum Transmit Power / Power Density	≤ 500 mW e.i.r.p.
8	Channel access and occupation rules	Duty Cycle limit 2.5% but not exceeding 10%  Adaptive Power Control (APC) required. The APC Control is able to reduce a link's transmit power from its maximum to ≤ 5 mW.
9	Authorisation regime	
10	Additional essential requirements	N/A
Informative (11-13)		
11	Frequency planning assumptions	N/A
12	Planned changes	N/A
13	Reference	EN 303 204 (Draft)
14	Notification	2014/0480/UK
15	Remarks	N/A



## Section 4

# Contact details

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## Section 5

# Document history

<b>Version</b>	<b>Date</b>	<b>Changes</b>
1.0	January 2015	First Publication EU No. 2014/0480/UK
1.1	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