

# IR2081 - UK Interface Requirement 2081

**Ship Radar Target Enhancer**

**Publication date:** September 2010  
**Date Amended:** January 2018  
**2015/1535/EU Notification number:** 2010/0248//UK



# Contents

<b>Section</b>		<b>Page</b>
1	References	3
2	Foreword	4
3	Minimum requirements for operation within the UK	5
4	Additional performance parameters	7
5	Contact details	8
6	Document history	9



### Section 3

# References

- 1.1 Recommendation ITU –R-M.1176.

## 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 Ship Radar Target Enhancers 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 Ship Radar Target Enhancers intended for use in the frequency bands 2900 MHz - 3100 MHz and 9300 MHz – 9500 MHz.
- 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 Ship Radar Target Enhancers intended for use in the frequency bands 2900 MHz – 3100 MHz and 9300 MHz – 9500 MHz.
- 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 5

# 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 Ship Radar Target Enhancers intended for use in the frequency bands 2900 MHz – 3100 MHz and 9300 MHz – 9500 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 equipment parameters for the licensing of Ship Radar Target Enhancers intended for use in the frequency bands 2900 MHz – 3100 MHz and 9300 MHz – 9500 MHz in the UK. Tables 3.1 contain the relevant equipment parameters. These taken together with the ‘essential requirements’ detailed in Article 3.2 and 3.3(g) of Directive 2014/53/EU constitute the minimum requirements for Ship Radar Target Enhancers intended for use in the frequency bands 2900 MHz – 3100 MHz and 9300 MHz – 9500 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 within the maritime 2900 MHz – 3100 MHz and 9300 MHz – 9500 MHz bands 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 maritime 2900 MHz – 3100 MHz and 9300 MHz – 9500 MHz spectrum by making clear the assumptions that are made in planning the use of the 2900 MHz – 3100 MHz and 9300 MHz – 9500 MHz 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 the use of: - Radar Target Enhancers operating in the 2900 MHz – 3100 MHz and 9300 MHz – 9500 MHz bands**

Mandatory (1-10)		
1	Frequency/ band(s)	2900 MHz – 3100 MHz and 9300 MHz – 9500 MHz
2	Radiocommunication Service	Maritime Radionavigation Service
3	Application	
4	Channelling	N/A
5	Modulation / Occupied bandwidth	As per received signal
6	Direction / Separation	n/a
7	Maximum Transmit Power	10 W eirp
8	Channel access and occupation rules	The output shall be only an amplified version of the received pulse, without any form of processing except limiting.
9	Authorisation regime	Licensed
10	Additional essential requirements	N/A
Informative (11-13)		
11	Frequency planning assumptions	N/A
12	Planned changes	N/A
13	Reference	Recommendation ITU-R M.1176
14	Notification	2010/0245/UK
15	Remarks	N/A



**Section 4**

# Additional performance parameters

**(informative)**

None specified



## Section 5

# Contact details

Ofcom Spectrum Licensing  
PO Box 1285  
Warrington. WA1 9GL

Tel: 020 7981 3131

Email: [spectrum.licensing@ofcom.org.uk](mailto:spectrum.licensing@ofcom.org.uk)

Website: <https://www.ofcom.org.uk/>

## Section 6

# Document history

<b>Version</b>	<b>Date</b>	<b>Changes</b>
0.1	April 2010	Draft published
1.0	September 2010	Document published
2.0	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