

# UK Interface Requirement 2012

## Public Mobile Data Services

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## References

ETS 300 113	European Technical Specification - Radio Equipment and Systems (RES); Land mobile service; Technical characteristics and test conditions for radio equipment intended for the transmission of data (and speech) and having an antenna connector
EN 300 339	European Norm - Electromagnetic compatibility and Radio spectrum Matters (ERM); General Electromagnetic Compatibility (EMC) for radio communications equipment.

## 1. Foreword

- 1.1 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 (SI) 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 Public Mobile Data radio systems in the specified frequency bands.
- 1.2 Nothing in this UK Interface Requirement shall preclude the need for equipment to comply with the requirements of Directive 99/5/EC.
- 1.3 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 the equipment must meet the minimum requirements specified in this UK Interface Requirement for the stated equipment types and for the stated frequency bands.
- 1.4 The criteria given in the main body of this UK Interface Requirement will apply in the licensing of Public Mobile Data services in the UK.
- 1.5 This UK 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 Public Mobile Data radio systems.
- 1.6 Ofcom has publicly consulted with manufacturers and operators on all aspects of this UK Interface Requirement. All UK Interface Requirements notified under Directive 98/34/EC will be published and will be made available free of charge from the Ofcom website. The address for the website is given on the back cover of this document.
- 1.7 Further information on this UK Interface Requirement can be obtained from the technical enquiry contact given on the back of this document.

## **2 Minimum Equipment Requirements for Operation within the UK**

- 2.1 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.
- 2.2 This UK Interface Requirement gives a high level description of how the spectrum in the UK is used for Public Mobile Data systems. It does not prescribe a technical interpretation of the 'essential requirements' of Directive 1999/5/EC.
- 2.3 This UK Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of public paging radio equipment in the UK. Table 2.1 contains the relevant equipment parameters. These together with the 'essential requirement' detailed in Article 3.2 of the Directive 1999/5/EC constitute the minimum equipment requirements for Public Mobile Data radio equipment within the UK.
- 2.4 The technical parameters specified in the UK Interface Requirement are applied to achieve the desired level of compatibility within the Public Mobile Data Service and with other radiocommunications services whilst promoting enterprise, innovation and competition.
- 2.5 This UK Interface Requirement provides the necessary technical information which facilitates access to the Public Mobile Data Service spectrum by making clear the assumptions that are made in planning the use of Public Mobile Data Service spectrum in the UK. It is not the intention of this UK 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 product requirement.

## Table 2.1: Minimum Equipment Requirements for Public Mobile Data Networks

Operational Frequency Range	Lower Frequency Limit	Upper Frequency Limit	Additional Technical Information
	Mid band) 158MHz	165.MHz	1. Licences may not be issued for apparatus using certain frequencies. .  2. Equipment shall be capable of operating on any one channel in the frequency bands allocated.
	(Band III) 174MHz	225MHz	
	(UHF 1) 425MHz	450 MHz	
	(UHF 2) 450 MHz	470 MHz	
Channel Spacing	12.5 kHz		
Emission Designation	12k5DGW for UHF Bands 8K0F1DJN or 8K0F1DBT for VHF Bands		Necessary bandwidths less that that shown are permitted.
Output Power	25 or 100W for UHF Bands 25W for VHF Bands		Maximum ERP. Site Clearance considerations may impose additional restrictions on maximum power used on certain channels.
WT-Act Licence Required?	Yes  **Exemption Order SI 930 applies		***'Subscriber' units for public mobile data do not need an individual licence providing that they meet the requirements specified in the exemption order.
T-Act Licence Required?	Yes		
Access Protocol	Not Defined ]		

## Document history

Draft	Date	Changes
v1.0	15 Dec 2000	Original publication
v1.1	Nov 2004	Updated for Ofcom



Technical enquiries to Business Radio team

Tel: 020 7981 3000

Fax: 020 7981 3333

Email: [BRenquiries@Ofcom.org.uk](mailto:BRenquiries@Ofcom.org.uk)

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