

BUSINESS RADIO (COMMON BASE STATION)

Sector/class/product	501010
Licence number	
Licensee	
Licensee address	
Date of issue	
Licence start date	
Fee payment date	

1. This Licence is issued by the Office of Communications ("Ofcom") on 'Date of issue' and replaces any previous authority granted in respect of the service subject to this Licence by Ofcom or by the Secretary of State.
2. This Licence authorises ("the Licensee") to establish, install and/or use radio transmitting and/or receiving stations and/or radio apparatus as described in the schedule(s) (hereinafter together called "the Radio Equipment") subject to the terms set out below and subject to the terms of the General Licence Conditions booklet. (Version OF195.1).

Issued by Ofcom.

COMMON BASE STATION OPERATOR LICENCE

SCHEDULE 1 TO LICENCE *****

DESCRIPTION OF RADIO EQUIPMENT COVERED BY THIS LICENCE

This schedule forms part of Licence ***** , issued to the Licensee on 'Date of issue', and describes the Radio Equipment covered by the Licence and the purpose for which the Radio Equipment may be used.

1. Description of Radio Equipment licensed

The Radio Equipment covered by this Licence consists of mobile equipment ("Mobile Stations"), fixed remote control trigger stations ("Fixed Mobile Stations") and base stations ("Base Stations") operating as a radio telecommunications system ("the System").

2. Purpose of the Radio Equipment

A Common Base Station is a service where a Base Station communicates with a number of Mobile Stations by wireless telegraphy serving a number of independent users of Mobile Stations.

3. Conformity Assessment Requirements

The Radio Equipment covered by this Licence shall be subject to and comply with the appropriate Interface Requirement (IR) or the Merchant Shipping (Marine Equipment Regulations 1999). Equipment first placed on the market before 8 April 2000, is required to be type approved in accordance with the appropriate published technical performance standards authorised at the date of installation of the Radio Equipment, subject to any modifications authorised by Ofcom, as specified below:

- a) MPT 1326: (Angle-modulated radio equipment for use at fixed and mobile stations in Private Mobile Radio Service);
- b) ETSI Technical Specification ETS 300 086; - general specification for the Land Mobile Group and is the technical characteristics and test conditions for radio equipment with an internal or external RF connector primarily for analogue speech.
- c) ETSI Technical Specification ETS 300 113: - general specification for Land Mobile services and is the technical characteristics and test conditions for non-speech and combined analogue speech/non-speech equipment with an internal or external antenna connector, intended for the transmission of data.
- d) ETSI Technical Specification I-ETS 300 219: - general specification for the Land Mobile Service and is the technical characteristics and test conditions for

radio equipment transmitting signals to initiate a specific response in the receiver.

- e) ETSI Technical Specification ETS 300 296: - general specification for the Land Mobile Service and is the technical characteristics and test conditions for radio equipment using integral antennas intended primarily for analogue speech.
- f) ETSI Technical Specification ETS 300 390: - general specification for the Land Mobile Service and is the technical characteristics and test conditions for radio equipment intended for the transmission of data (and speech) and using integral antenna.
- g) ETSI Technical Specification ETS 300 341: - general specification for the Land Mobile Service and is the technical characteristics and test conditions for radio equipment using integral antenna transmitting signals to initiate a specific response in the receiver.

New licences are no longer available for equipment previously type approved to MPT 1301 and use of such equipment after 30 November 1997 will only be on an unprotected, non-interference basis.

New licences are no longer available for equipment type approved to MPT 1302. However, use of such equipment on existing licences will be allowed to continue on a non-interference basis.

4. Special conditions relating to the operation of the Radio Equipment

The Licensee shall, upon request, supply Ofcom or any person authorised by them on their behalf with the name and address of any subscribing customers to the System and relevant technical details of any part of the Radio Equipment used by such customers.

5. Technical Performance Requirements

The Licensee must ensure that the Radio Equipment performs in accordance with the following technical performance requirements and subsequent technical schedule(s).

6. Transmitting Parameters

- (a) The Common Base Station must be constructed, installed and operated only within the technical parameters as specified in the technical schedule(s) to this Licence.
- (b) The Base Station transmit antenna should be either:
 - i. as specified in the technical schedules to this Licence; or

- ii. constructed such that the radiation pattern of the transmit site (if significantly affecting the pattern achievable by the antenna alone) conforms with that achievable with the specified antenna.

7. Fixed Mobile Stations

- (a) The maximum effective radiated power of all Fixed Mobile Stations controlling the Base Station shall be selected or adjusted so as to give a planned median input of 20 microvolts pd at the input terminals of the Base Station receiver.
- (b) Directional antennae of the following types should be used at all Fixed Mobile Station sites:
 - i. for VHF frequencies, a 3 or 5 element yagi;
 - ii. for UHF frequencies, an 8 element yagi,other antenna types being permitted only if specifically authorised.
- (c) Fixed Mobile Stations must be sited in a fixed position within the coverage area defined by Ofcom for the Common Base Station and not more than 45 km from the site of the Common Base Station, unless specifically authorised otherwise.
- (d) A Fixed Mobile Station shall control the Base Station in one or more of the following ways:
 - i. by reverse frequency working on the frequency listed in the subsequent schedule(s) to this Licence; or
 - ii. by landline link.

8. Operational Characteristics

- (a) Except as authorised in Schedules, the Licensee shall not:
 - i. use any trunking technology to allow sharing of two or more radio channels by a number of Mobile Stations;
 - ii. operate the Base Station in continuous carrier mode;
 - iii. operate the Base Station as a cross band repeater;
- (b) The Licensee shall not operate the Base Station as a paging transmitter.
- (c) Transmission of data is permitted for short data messages, defined as no longer than 500 ms and control signals. However, such transmission should

not form more than 10% of normal traffic and will not be taken into account when assessing occupancy levels.

9. Call Sign

The Licensee and any person authorised by the Licensee or its customers to use the Radio Equipment shall transmit the call sign(s) referred to in the subsequent schedule(s):

- (a) at the beginning of any transmission;
- (b) in the same format that is being used for the transmission of the information.

10. Interpretation

In this schedule:

- (a) "ETSI" means the European Telecommunications Standards Institute;
- (b) "ETS" means European Telecommunications Standard;
- (c) "ERP" means the effective radiated power of a radio transmitter in a given direction, that is the product of the power supplied to the antenna and its gain in a given direction relative to a half wave dipole in a given direction;
- (d) "pd" means potential difference;
- (e) "ITU" means the International Telecommunications Union, and "Emission designation" shall have the meaning as defined in the ITU Radio Regulations RR 4-2 and Appendix 6 Parts A & B.
- (f) "IR" means the United Kingdom Radio Interface Requirement published by Ofcom in accordance with Article 4.1 of Directive 1999/5/EC of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment (RTTE) and mutual recognition of their conformity. The Directive was implemented in the UK by the Radio Equipment and Telecommunications Terminal Equipment Regulations 2000 S.I. 2000/730.

PUBLIC NETWORKS

SCHEDULE 2

Licensee:

Customer name
Customer address
Trading name

Licence Number: *****

Site contact
Telephone number

Extension

Fax number

PART 1

Additional clauses related to this licence

Details of the stations and frequencies associated with this licence begin overleaf.