

## OfW 369: Guidance Notes for Self Co-ordinated Licence and Interim Link Registration Process in the 64-66 GHz, 73.375-75.875 GHz and 83.375-85.875 GHz bands (December 2013)

### 1. INTRODUCTION

The 64-66 GHz, ('65 GHz'), 73.375-75.875 GHz and 83.375-85.875 GHz bands (the 'Self Co-ordinated 70/80 GHz') bands are available in the UK under a light licensed self coordinated process for point to point fixed wireless applications.

Currently, the 65 and the Self Co-ordinated 70/80 GHz bands are administered under interim licensing and link registration processes. The interim manual procedures (described below) will be in place until Ofcom makes the permanent web-based tool available.

### 2. NATIONAL LICENCE

The licences for the 65 and the Self Co-ordinated 70/80 GHz bands are non-exclusive national licences which authorise licensees to register point to point fixed wireless links in the UK, through a link registration process administered by Ofcom. A licence does not authorise operation until a link is registered. To operate a link in either the 65 or the Self Co-ordinated 70/80 GHz band, a licensee must first self coordinate and then register their link through the Ofcom link registration process and that link must have a valid entry on the 65 or 70/80 GHz section of Ofcom's Wireless Telegraphy Register (the "Register").

#### 2.1 Licence Application Process

Applicants for licences in the 65 GHz or the Self Co-ordinated 70/80 GHz bands are required to complete Form OfW368. This must be submitted by post to:

##### **Spectrum Licensing**

Ofcom  
Riverside House  
2a Southwark Bridge Road  
LONDON SE1 9HA  
Telephone: 020 7981 3131  
Or via email to: [spectrum.licensing@ofcom.org.uk](mailto:spectrum.licensing@ofcom.org.uk)

OfW 368 is available on the Ofcom website at:

<http://licensing.ofcom.org.uk/radiocommunication-licences/fixed-terrestrial-links/forms/>

#### 2.2 Licence Fee

The licence fee is £50 which includes the charge for registration of the first link for the first year of the licence. Any further links registered by the licensee will be charged at £50 per link per year. The initial £50 fee can be enclosed with the application form, or if an application is submitted without payment the licensee will receive an invoice which will provide a customer reference and invoice number, both of which are required for online payments. Online payments can be made via the Ofcom Payment

Portal at <https://secure.ofcom.org.uk/payments/welcome.php>. Once the initial payment has been made the licence will be issued.

### **2.3 Target for Issuing Licenses**

Ofcom aims to issue a licence within 14 days of receiving a correctly completed application form OfW368 and associated payment.

### **2.4 Licence Cancellation**

Licensees must inform Spectrum Licensing in writing if they wish to cancel a licence, quoting the reference numbers of all links associated with the licence being cancelled.

## **3. LINK REGISTRATION**

Links cannot be registered without a valid licence. Each fixed wireless link must be registered with Ofcom and licensees must submit a link registration form to Spectrum Licensing for each link. A fixed wireless link must have a valid entry on the Register to enable a licensee to operate that link. The Register can be found at <http://licensing.ofcom.org.uk/radiocommunication-licences/fixed-terrestrial-links/forms/>

### **3.1 Application Process for Link Registration**

Licensees applying to register a link must complete either Form OfW 383 for the Self Co-ordinated 70/80 GHz links or Form OfW 384 for 65 GHz links. Link registration forms must be submitted by post to:

#### **Spectrum Licensing**

Ofcom  
Riverside House  
2a Southwark Bridge Road  
LONDON SE1 9HA

Or via email to [spectrum.licensing@ofcom.org.uk](mailto:spectrum.licensing@ofcom.org.uk)

OfW 383 and OfW 384 are available on the Ofcom website at: <http://licensing.ofcom.org.uk/radiocommunication-licences/fixed-terrestrial-links/forms/>

### **3.2 Date/Time Priority and Interference Protection**

On receipt of a correctly completed link registration form, Ofcom will assign a date and time to the link. The date and time record of each link on the register will be used to establish priority within the band for interference purposes. A link with a date time record will have priority over links registered later. If a new link is likely to cause interference to an existing link, the licensee of the new link should coordinate with the existing licensee in order to avoid interference. In the event where this is not possible the new link should not be registered. If the link is registered, the later link will be removed from the register if an interference complaint is received by Ofcom.

The interference assessment between registered links and new links will be the responsibility of the licensees. Ofcom will not conduct interference assessments.

### **3.3 Fees for Link Registrations**

Licensees will be charged a fee for each link based on £50 per year/part year (if applicable) in accordance with the conditions set out in the licence. The fee for the first link registered is included in the licence application fee for one of the two bands (65 GHz or the Self Co-ordinated 70/80 GHz) for the first year.

### **3.4 Target for Registration of Links**

Ofcom will aim to register links within 7 days of receiving a correctly completed application form OfW368.

### **3.5 Link Cancellations**

Licensees must inform Spectrum Licensing in writing if they wish to cancel a link, quoting the associated link reference number.

## **4. UPDATES TO THE REGISTER**

Ofcom aims to publish the updated Register on a weekly basis on the Ofcom website when changes have been made.

## **5. LICENCE CONDITIONS AND ADDITIONAL INFORMATION**

The licence is issued under the terms of the Wireless Telegraphy Act 2006. A sample copy of this licence is given in Annex 1 which contains the terms, provisions, limitations and conditions of the licence.

## **6. CEPT RECOMMENDATIONS**

The CEPT recommendation ECC/REC 05-02 "Use of the 64-66 GHz frequency band for the Fixed Service" may be used for additional guidance for licensees in the 64-66 GHz frequency band. This recommendation is available from the European Communications Office (<http://www.ecodocdb.dk/>). Please note that the channel arrangements detailed in this recommendation are not mandatory in the UK.

The CEPT recommendation ECC/REC (05)07 "Radio Frequency Channel Arrangements for Fixed Service Systems Operating in the Bands 71-76 GHz and 81-86 GHz" may be referred to for additional information for licensees in the 73.375-75.875 GHz and 83.375-85.875 GHz frequency bands. This recommendation is available from the European Communications Office (<http://www.ecodocdb.dk/>). Please note that the channel arrangements detailed in this recommendation are not mandatory in the UK.

## **7. FURTHER INFORMATION AND ASSISTANCE**

For further information and assistance on the licence application and link registration procedures, please contact the Spectrum Licensing at:

### **Spectrum Licensing**

Riverside House  
2a Southwark Bridge Road  
London SE1 9HA

Telephone 020 7981 3131

Fax 020 7981 3235

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

## ANNEX 1

### Sample of a Licence

#### Wireless Telegraphy Act 2006

#### Self Co-ordinated Links

Sector/class/product	<b>Fixed Links/Light/305010</b>
Licence number	«LICENCE»
Licensee	«customer_name»
Licensee address	«CUSADDRESS»
Date of issue	«date»
Licence start date	«ISS_DATE»

A. This Licence is issued by the Office of Communications ("Ofcom") on «date» and replaces any previous authority granted in respect of the equipment subject to this Licence by Ofcom or by the Secretary of State.

B. This Licence authorises «customer\_name» (the "Licensee") to establish and use stations for wireless telegraphy and install and use wireless telegraphy apparatus subject to the terms, provisions, limitations and conditions of this Licence.

C. Any schedule to this Licence shall form part of it together with any subsequent schedule which Ofcom may issue as a variation to this Licence.

**ISSUED BY OFCOM**

## Self Co-ordinated Links

### SCHEDULE 1 TO LICENCE NUMBER «LICENCE»

This schedule forms part of Licence «**LICENCE**», issued to «**customer\_name**», the Licensee on «**date**», and describes the Radio Equipment covered by the Licence and the purpose for which the Radio Equipment may be used.

#### 1. Description of the Radio Equipment covered by this Licence

1.1 The Licensee is authorised to establish and use stations for wireless telegraphy and install and use wireless telegraphy apparatus (the "Radio Equipment") only:

- (a) which operates within:
  - (i) the frequency band 64-66 GHz or
  - (ii) either of the two frequency bands at 71.125-75.875 GHz and 81.125-85.875 GHz;
- (b) which is for use for the purpose of a fixed wireless telegraphy link between two places;
- (c) where that link:
  - (i) when operating in the 64-66 GHz band has been fully registered in the name of the Licensee on the 65 GHz section of Ofcom's wireless telegraphy register (the "Register")<sup>1</sup> or
  - (ii) when operating in the 71.125-75.875 GHz and/or 81.125-85.875 GHz band has been fully registered in the name of the Licensee on the 70/80 GHz section of the Register, in accordance with the terms of this Licence.

#### 2. Registration of fixed wireless telegraphy links

The Licensee must not register or attempt to register a fixed wireless telegraphy link which:

- (a) has already been registered on the Register; or
- (b) is likely to cause or receive undue Interference to or from any link which has already been registered on the Register.

#### 3. Restrictions

3.1 The maximum EIRP is limited to 55dBW.

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<sup>1</sup> The Register can be accessed at <http://licensing.ofcom.org.uk/radiocommunication-licences/fixed-terrestrial-links/forms/>

3.2 The maximum transmit power delivered to the antenna in the 71.125-75.875 GHz and 81.125-85.875 GHz bands is limited to 0dBW;

3.3 New fixed wireless telegraphy links may only be registered and operate where the occupied bandwidth falls entirely within the frequency bands:

- a) 64-66 GHz;
- b) 73.375 – 75.875 GHz; and
- c) 83.375 – 85.875 GHz.

3.4 Fixed wireless telegraphy links operating within the 71.125 – 75.875 GHz and 81.125 – 85.875 GHz bands registered before 21 August 2013 may remain unchanged, including where the occupied bandwidth overlaps the 71.125 – 73.375 and 81.125 – 83.375 GHz bands, until surrendered by the licensee or withdrawn by Ofcom.

#### **4. Conformity assessment requirements**

4.1 The Radio Equipment shall be subject to and comply with the requirements of the IR.

#### **5. Technical performance requirements**

5.1 The Licensee must ensure that the Radio Equipment performs in accordance with the specifications in the relevant entry in the Register.

#### **6. Radio Equipment Use**

6.1 The Licensee must ensure that the Radio Equipment is constructed and used only in accordance with this Licence. No changes to parameters, including the frequencies assigned, technical parameters relating to the antenna, transmitter and receiver, power of transmission or height or geographical location of the Radio Equipment will be permitted once the link has been registered on the Register.

6.2 The Licensee must ensure that the Radio Equipment is used only by persons who have been authorised by the Licensee to do so and that such persons are made aware of the terms of this Licence and of the requirement to comply with them.

#### **7. Licence Term, Variation and Revocation**

7.1 This Licence shall continue in force until revoked by Ofcom or surrendered by the Licensee.

7.2 Pursuant to schedule 1, paragraph 8 of the Wireless Telegraphy Act 2006 (the "Act") Ofcom may not revoke this Licence under schedule 1, paragraph 6 except:

- (a) at the request of, or with the consent of, the Licensee;
- (b) if there has been a breach of any of the conditions of the Licence;

(c) if, in connection with the transfer or proposed transfer of rights and obligations arising by virtue of this Licence, there has been a breach of any provision of regulations made by Ofcom under the powers conferred by section 30(1) and (3) of the Act<sup>2</sup>;

(d) in accordance with schedule 1, paragraph 8(5) of the Act;

(e) if it appears to Ofcom to be necessary or expedient to revoke the Licence for the purposes of complying with a direction by the Secretary of State given to Ofcom under section 5 of the Act or section 5 of the Communications Act 2003; or

(f) for reasons related to the management of the radio spectrum, provided that in such case the power to revoke may only be exercised after five (5) year's notice is given in writing to the Licensee.

7.3 Ofcom may at any time vary this Licence to remove from the authorisation conferred by this Licence any wireless telegraphy fixed link which has been registered by the Licensee but which is causing or which may cause or materially contribute to undue Interference to other registered wireless telegraphy fixed links which were registered by another person at any time before the registration of that link registered by the Licensee.

7.4 Where Ofcom exercise their power to revoke or vary this Licence in accordance with schedule 1, paragraph 6 of the Act, the Licensee shall be notified in writing or by a general notice. Any general notices will be posted on the Ofcom website<sup>3</sup>.

7.5 Subject to condition 6.1, Ofcom may amend the name or address of the Licensee on request from the Licensee.

## **8. Changes**

8.1 This Licence may not be transferred<sup>4</sup>.

8.2 The Licensee must give immediate notice to Ofcom in writing of any change to the Licensee's name and address from that recorded on this Licence.

## **9. Licence Fee**

9.1 The Licensee shall pay to Ofcom the relevant sums as provided in section 12 of the Act and the regulations made thereunder:

(a) on or before the date of issue of this Licence; and

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<sup>2</sup> These are regulations on spectrum trading.

<sup>3</sup> [www.ofcom.org.uk](http://www.ofcom.org.uk)

<sup>4</sup> However rights and obligations arising by virtue of certain wireless telegraphy licences may be transferred in accordance with regulations made by Ofcom under powers conferred by section 30 of the Act. See Ofcom's website for the latest position on which licences are subject to spectrum trading.

(b) on or before each anniversary of the date of issue of this Licence for subsequent payments or such other date or dates as shall be notified in writing to the Licensee, in accordance with that section and those regulations and any relevant terms, provisions and limitations of this Licence.

## **10. Access and Inspection**

10.1 The Licensee shall permit any person authorised by Ofcom:

- (a) to have access to the Radio Equipment; and
- (b) to inspect this Licence and the Radio Equipment,

at any and all reasonable times or, when in the opinion of that person an urgent situation exists, or at any time to ensure that the Radio Equipment is being used in accordance with the terms of this Licence.

## **11. Modification, Restriction and Closedown**

11.1 A person authorised by Ofcom may require the Radio Equipment, or any part thereof, to be modified or restricted in use, or temporarily or permanently closed down immediately if in the opinion of the person authorised by Ofcom:

- (a) a breach of this Licence has occurred; and/or
- (b) the use of the Radio Equipment is causing or contributing to undue Interference to the authorised use of other radio equipment.

11.2 Ofcom may require the Radio Equipment to be modified or restricted in use, or temporarily closed down either immediately or on the expiry of such period as may be specified in the event of a national or local state of emergency being declared. Ofcom may only exercise this power after a written notice is served on the Licensee or a general notice applicable to holders of a named class of Licence is published.

## **12. Records of Registered Links**

12.1 The Register will record the details of all authorised links. The Licensee shall print off and at all times keep a paper copy of all registered links, and shall produce them when demanded by Ofcom or a person authorised by Ofcom. Ofcom will not issue paper copies of any registered links.

## **13. Interpretation**

13.1 In this Licence:



(a) the establishment, installation and use of the Radio Equipment shall be interpreted as establishment and use of stations and installation and use of apparatus for wireless telegraphy as specified in section 8 of the Act;

(b) "Interference" shall have the meaning given by section 115 of the Act;

(c) "inspect" includes examine and test;

(d) "EIRP" means the effective radiated power of a radio transmitter of the power supplied to the antenna and the antenna gain relative to an isotropic antenna;

(e) "IR" means the UK Radio Interface Requirement 2000 (UK RIR 2000), which specifies the requirements for the licensing and appropriate use of fixed terrestrial (point to point) radio systems and was 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);

(f) "Radio Equipment" means the radio equipment specified in Condition 1;  
and

(g) "dBW" means the power level in decibels (logarithmic scale) referenced against 1 watt (i.e. a value of 0 dBW is 1 Watt);

(h) Occupied bandwidth means the width of a frequency band as defined in Article 1 (1.153) of the International Radio Regulations.

13.2 The Interpretation Act 1978 shall apply to this Licence as it applies to an Act of Parliament.