

## SPECTRUM ACCESS HIGH DENSITY 26 GHz LICENCE

Licence no:	1398413/1
Date of issue:	23 October 2025
Commencement date:	1 January 2029
Licence end date:	22 October 2040

1. The Office of Communications (Ofcom) grants this wireless telegraphy licence (“the **Licence**”) to:

Telefonica UK Limited  
(Company registration number 01743099  
("the **Licensee**")  
Telefonica UK Limited  
500 Brook Drive  
Reading  
United Kingdom  
RG2 6UU

to establish, install and use wireless telegraphy stations and/or wireless telegraphy apparatus as described in the schedules to this Licence (together “the **Radio Equipment**”) subject to the terms set out below.

### Licence Term

2. This Licence shall continue in force from the date of commencement until 22 October 2040 unless revoked by Ofcom or surrendered by the Licensee.

### Licence Variation and Revocation

3. 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 of the Act except:
  - a. at the request, or with the consent, of the Licensee;
  - b. if there has been a breach of any of the terms of this Licence;
  - c. in accordance with schedule 1 paragraph 8(5) of the Act;
  - d. if it appears to Ofcom to be necessary or expedient to revoke the Licence for the purpose 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;

- e. if, in connection with the transfer or proposed transfer of rights and obligations arising by virtue of the Licence, there has been a breach of any provision of regulations made by Ofcom under the powers conferred by section 30 of the Act<sup>1</sup>; or
  - f. if the Licensee has been found to the reasonable satisfaction of Ofcom to have been involved in any act, or omission of any act, constituting a breach of the Wireless Telegraphy (Licence Award) Regulations 2025 (“the Regulations”).
4. Ofcom may only revoke or vary this Licence by notification in writing to the Licensee and in accordance with schedule 1, paragraphs 6, 6A and 7 of the Act.

## Transfer

5. This Licence may not be transferred. The transfer of rights and obligations arising by virtue of this Licence may, however, be authorised in accordance with regulations made by Ofcom under powers conferred by section 30 of the Act.<sup>2</sup>

## Changes to Licensee details

6. The Licensee shall give prior notice to Ofcom in writing of any proposed changes to the Licensee’s name and/or address as recorded in paragraph 1 of this Licence.

## Fees

7. In accordance with the Regulations, the fee in consideration of which this licence is granted is £0.<sup>3</sup> If the Licence is surrendered, revoked or varied, no refund, whether in whole or in part, of any amount which is due under the terms of this Licence, payable in accordance with the Regulations, will be made, except at the absolute discretion of Ofcom.

## Radio Equipment Use

8. The Licensee shall ensure that the Radio Equipment is established, installed and used only in accordance with the provisions specified in the schedules to this Licence. Any proposal to amend any detail specified in any of the schedules to this Licence must be agreed with Ofcom in advance and implemented only after this Licence has been varied or reissued accordingly.
9. The Licensee shall ensure that the Radio Equipment is operated in compliance with the terms of this Licence and is used only by persons who have been authorised in writing by the Licensee to do so and that such persons are made aware of, and of the requirement to comply with, the terms of this Licence.
10. The Licensee must ensure that all Radio Equipment is established, installed, modified and used only in accordance with the provisions specified in Schedule 3 (EMF Licence Condition) of this Licence.

## Access and Inspection

11. The Licensee shall permit any person authorised by Ofcom:
  - a. to have access to the Radio Equipment; and

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<sup>1</sup> These are regulations on spectrum trading.

<sup>2</sup> See Ofcom’s website for the latest position on spectrum trading and the types of trade which are permitted.

<sup>3</sup> In addition, the fee specified in reg. 106 of the Regulations (equal to £8,000,000) was paid for a “26 GHz lower lot first period licence” in the 2025 mmWave auction.

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

### Modification, Restriction and Closedown

12. Any 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 a term of this Licence has occurred; and/or
  - b. the use of the Radio Equipment is, or may be, causing or contributing to undue interference to the use of other authorised radio equipment.
13. Ofcom may require any of 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 has been served on the Licensee or a general notice applicable to holders of a named class of licence has been published.

### Geographical Boundaries

14. Subject to the requirements of any coordination procedures notified to the Licensee pursuant to the Schedules to this Licence, the Licensee is authorised to establish, install and use the Radio Equipment in the high density area(s) defined in Schedule 2.

### Interpretation

15. In this Licence:
  - a. the “**Act**” means the Wireless Telegraphy Act 2006;
  - b. the establishment, installation and use of the Radio Equipment shall be interpreted as establishment and use of wireless telegraphy stations and installation and use of wireless telegraphy apparatus for wireless telegraphy as specified in section 8(1) of the Act;
  - c. the expression “**high density areas**” shall be interpreted as the areas of the UK defined in Schedule 2 to this Licence;
  - d. the expression “**interference**” shall have the meaning given by section 115 of the Act;
  - e. the expressions “**wireless telegraphy station**” and “**wireless telegraphy apparatus**” shall have the meanings given by section 117 of the Act;
  - f. the schedule(s) form part of this Licence together with any subsequent schedule(s) which Ofcom may issue as a variation to this Licence; and
  - g. the Interpretation Act 1978 shall apply to the Licence as it applies to an Act of Parliament.

Issued by Ofcom



Office of Communications

# SCHEDULE 1 TO LICENCE NUMBER: 1398413/1

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Schedule Date:	23 October 2025
Licence category:	Spectrum Access High Density Licence (26 GHz)

## Description of Radio Equipment

1. References in this schedule to the Radio Equipment are references to any wireless telegraphy station or wireless telegraphy apparatus that is established, installed and/or used under this schedule.

## Interface Requirements for the Radio Equipment

2. Use of the Radio Equipment shall be in accordance with the following Interface Requirement: IR 2110: 26 GHz High Density area.

## Special conditions relating to the Radio Equipment

3. Subject to paragraphs 4 and 5 of this schedule, during the period that this Licence remains in force, unless consent has otherwise been given by Ofcom, the Licensee shall compile and maintain accurate written records of the following details relating to the Radio Equipment:
  - a. postal address (including post code);
  - b. National Grid Reference, to at least 10 metre resolution;
  - c. antenna height (above ground level), type, and boresight bearing east of true north (if applicable);
  - d. radio frequencies which the Radio Equipment uses; and
  - e. transmitted power expressed in TRP per cell;

and the Licensee must produce these records if requested by any person authorised by Ofcom.

4. The conditions relating to the keeping of records contained in sub-paragraphs 3(a), (b) and (c) of this schedule shall not apply in respect of smart/intelligent low power repeater equipment.
5. The conditions relating to the keeping of records contained in paragraph 3 of this schedule shall not apply in respect of licence exempt radio equipment.
6. The Licensee shall submit to Ofcom copies of the records detailed in paragraph 3 above at such intervals as Ofcom may notify to the Licensee.
7. The Licensee shall submit to Ofcom in such manner and within such period as specified by Ofcom, such other information in relation to the Radio Equipment, or any wireless telegraphy station or wireless telegraphy apparatus which the Licensee is planning to use, as Ofcom may from time to time request. Such information may include, but is not limited to, information in relation to the radio frequency, transmitted power and date of first use for wireless telegraphy stations or wireless telegraphy apparatus to be established, installed or used within such timeframe and in such areas as Ofcom may reasonably request.

## Transmitter and antenna restrictions

8. The Licensee shall ensure that when deploying Active Antenna System (AAS) outdoor base stations and transmitting in 25.1-27.5 GHz, each antenna is normally transmitting only with the main beam pointing below the horizon and in addition the antenna shall have mechanical pointing below the horizon except when the base station is only receiving.

## Coordination

9. The Licensee shall ensure that the Radio Equipment is operated in compliance with such co-ordination procedures as may be notified to the Licensee by Ofcom from time to time.

## International cross-border co-ordination

10. The Licensee shall ensure that the Radio Equipment is operated in compliance with such cross-border co-ordination and sharing procedures as may be notified to the Licensee by Ofcom from time to time.

## Cooperation between Licensees

11. In addition to complying with the specific transmission terms, conditions and limitations set out in this Licence, the Licensee must liaise and co-operate with other holders of licences in the 25.1-27.5 GHz band (if necessary adjusting transmission power and other technical parameters of transmission) in such a way that harmful interference is not caused by one network deployment to that of another licensee within the band.

## Synchronisation

12. In the event that harmful interference arises, the Licensee shall endeavour to discuss and agree with the other licence holder(s) how to coordinate their use. If agreement between licence holders cannot be reached, Ofcom may notify the Licensee to comply with additional technical conditions relating to synchronisation requirements.
13. The Licensee must comply with such technical conditions relating to synchronisation requirements notified to it by Ofcom from time to time.
14. The Licensee accepts that they may need to alter or replace Radio Equipment in order to comply with any synchronisation requirement notified from time to time.

## Permitted Frequency Blocks

15. Subject to the emissions permitted under paragraph 17 of this schedule, the Radio Equipment may only transmit within the following frequency bands (the “**Permitted Frequency Blocks**”) and during the authorisation period specified below:

Permitted Frequency Blocks	Authorisation period
25.1 - 25.9 GHz	1 January 2029 to 22 October 2040

## Maximum power within the Permitted Frequency Blocks

16. Subject to any more restrictive limitations imposed by the coordination requirements notified by Ofcom in accordance with paragraphs 9 and 10 of this schedule, the power transmitted in the Permitted Frequency Blocks shall not exceed:

Radio Equipment	Maximum mean TRP
Base Station	36 dBm/200 MHz

Radio Equipment	Maximum mean TRP
Terminal station	23 dBm

### Maximum power outside the Permitted Frequency Blocks

17. The maximum mean TRP emanating from the Radio Equipment transmissions at any frequency outside the Permitted Frequency Blocks, but within the frequency ranges listed in the following table, shall not exceed the requirements in the following table:

Frequency Range	Maximum mean TRP
<b>0 to 50 MHz below or above the Permitted Frequency Blocks</b>	12 dBm/50 MHz
<b>Within 24.25-27.5 GHz</b> <i>and not within 0 to 50 MHz below or above the Permitted Frequency Blocks</i>	4 dBm/50 MHz
<b>Within 23.6-24.0 GHz</b>	-39 dBW/200 MHz (Base stations) -35 dBW/200 MHz (Terminal stations)

### Interpretation of terms in this schedule

18. In this schedule:

- a. **“AAS”** means active antenna system. An AAS is a base station and antenna system where the amplitude and / or phase between antenna elements is continually adjusted resulting in an antenna pattern that varies in response to short term changes in the radio environment. This is not intended to include long term beam shaping such as fixed electrical down tilt. In AAS base stations the antenna system is integrated as part of the base station system or product;
- b. **“dBm”** means the power level in decibels (logarithmic scale) referenced against 1 milliwatt (i.e. a value of 0 dBm is 1 milliwatt);
- c. **“Indoor”** or **“indoors”** means inside premises which have a ceiling or a roof; and except for any doors, windows or passageways, are wholly enclosed;
- d. **“IR”** means a United Kingdom Radio Interface Requirement notified by Ofcom in accordance with the Radio Equipment Regulations 2017, as amended by the Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019;
- e. **“outdoor”** or **“outdoors”** means anywhere that is not indoor.
- f. **“per cell”** means per specific piece of Radio Equipment. For a multi-sector base station, per cell refers to each one of the individual sectors irrespective of the number of transmit antennas;
- g. **“Permitted Frequency Blocks”** has the meaning given to it in paragraph 16 of this schedule;

- h. **“smart/intelligent low power repeater”** means a repeater which operates with power not exceeding 24 dBm EIRP per carrier, which may be established by customers of the Licensee who have written agreements with the Licensee and:
  - i. The Licensee has ultimate control of the repeater, i.e. each individual repeater can be disabled remotely by the Licensee;
  - ii. The repeater operates only on the Licensee’s frequencies and with their valid Public Land Mobile Network Identifier;
  - iii. Must not cause undue interference to other spectrum users; and
  - iv. The repeater only transmits on the uplink timeslot when actively carrying a call (voice, video or data) or signalling from serviced handsets.
- i. **“TRP”** means the total radiated power. This is the integral of the power transmitted in different directions over the entire radiation sphere, measured during the on part of the transmission; and
- j. **“Uplink”** means transmissions from a terminal station to a base station.

## SCHEDULE 2 TO LICENCE NUMBER: 1398413/1

Schedule Date:	23 October 2025
Licence category:	Spectrum Access High Density Licence (26 GHz)

### High density areas

In this Licence, the expression “**high density areas**” means the 68 areas in the United Kingdom at the places listed below, which are more particularly defined by coordinates based on the British National Grid reference system in Ofcom’s document entitled “[mmWave Spectrum Access Licences: High Density Areas](#)”, published by Ofcom on 11 November 2024, and available on [Ofcom’s website](#).

Aberdeen	Farnborough & Aldershot	Oxford
Ashford	Folkestone & Hythe	Peterborough
Basildon	Gloucester & Cheltenham	Plymouth
Basingstoke	Greater Birmingham	Portsmouth & Gosport
Belfast	Greater Glasgow	Preston
Blackpool	Greater London	Reading
Bournemouth & Poole	Greater Manchester	Redditch
Bracknell	Harrogate	Sheffield City Region
Brighton	Hastings	Shrewsbury
Bristol & Bath	Hull	Southampton
Cambridge	Ipswich	Southend
Cardiff & Newport	Leeds & Bradford Area	Southport
Chelmsford	Leicester	Stafford
Chester	Lincoln	Stansted Airport
Colchester	Liverpool	Stoke-on-Trent
Coventry	Loughborough	Swansea
Crawley	Luton	Swindon
Derby	Medway Towns	Teesside
Doncaster	Milton Keynes	Tyne & Wear
Dover	Newbury	Warrington
Dundee	Northampton	Worcester
Edinburgh	Norwich	York
Exeter	Nottingham	

## SCHEDULE 3 TO LICENCE NUMBER: 1398413/1

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### EMF Licence Condition

Schedule Date:	23 October 2025
Licence category:	Spectrum Access High Density Licence (26 GHz)

#### Sites which are not shared with another licensee

1. The Licensee shall only establish, install, modify or use Relevant Radio Equipment if the total electromagnetic field exposure levels produced by the Licensee's On-Site Radio Equipment do not exceed the basic restrictions<sup>4</sup> in the relevant tables for general public exposure identified in the ICNIRP Guidelines<sup>5</sup> in any area where a member of the general public is or can be expected to be present when transmissions are taking place.

#### Sites which are shared with another licensee

2. In the case of a shared site where the Shared Site Exemption applies to the Licensee, the Licensee shall comply with paragraph 1 above.
3. In the case of a shared site where the Shared Site Exemption does not apply to the Licensee, the Licensee shall only establish, install, modify or use the Relevant Radio Equipment if:
  - a) the total electromagnetic field exposure levels produced by the Licensee's On-Site Radio Equipment, together with
  - a) the total electromagnetic field exposure levels produced by all other wireless telegraphy stations and wireless telegraphy apparatus operated by another licensee on the same site for which the Licensee can reasonably assume that a Shared Site Exemption does not apply,

do not exceed the basic restrictions<sup>6</sup> in the relevant tables for general public exposure identified in the ICNIRP Guidelines<sup>7</sup> in any area where a member of the general public is or can be expected to be present when transmissions are taking place.

#### Emergency Situations

4. The obligations in paragraphs 1, 2 and 3 above will not apply if the Relevant Radio Equipment is being used for the purpose of seeking emergency assistance or reporting and responding to an emergency situation (in the vicinity of that situation) including for search and rescue activities and maritime emergency communications.<sup>8</sup>

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<sup>4</sup> Compliance with the reference levels for general public exposure identified in the ICNIRP Guidelines will ensure compliance with the basic restrictions.

<sup>5</sup> The relevant tables for general public exposure are identified in Ofcom's "Guidance on EMF Compliance and Enforcement".

<sup>6</sup> Compliance with the reference levels for general public exposure identified in the ICNIRP Guidelines will ensure compliance with the basic restrictions.

<sup>7</sup> The relevant tables for general public exposure are identified in Ofcom's "Guidance on EMF Compliance and Enforcement".

<sup>8</sup> Further information on emergency situations is set out in Ofcom's "Guidance on EMF Compliance and Enforcement".

## Relationship with authorised transmission levels

5. The Licensee shall comply with paragraphs 1, 2 and 3 above notwithstanding the maximum transmission levels authorised in the Licence.

## Records

6. The Licensee shall keep, or shall procure that a third party shall keep, and shall make available to Ofcom on request, records (including the type of records identified in Ofcom's "Guidance on EMF Compliance and Enforcement") that demonstrate how it has complied with paragraphs 1, 2 and 3 above when Relevant Radio Equipment is established, installed, modified or used.

## Ofcom's "Guidance on EMF Compliance and Enforcement"

7. When evaluating its compliance with paragraphs 1, 2 and 3 above, the Licensee shall take into account Ofcom's "**Guidance on EMF Compliance and Enforcement**" that is in force at the relevant time.

## Interpretation

8. In this schedule:
  - a. "**dB<sub>i</sub>**" means the ratio in dB (decibel) when comparing the gain of the antenna to the gain of an isotropic antenna. An isotropic antenna is a theoretical antenna which radiates power uniformly in all directions;
  - b. "**EIRP**" means equivalent isotropically radiated power which is the product of the power supplied to an antenna and the absolute or isotropic antenna gain in a given direction relative to an isotropic antenna;
  - c. "**ERP**" means effective radiated power which is the product of the power supplied to an antenna and its gain in a given direction relative to a half-wave dipole;
  - d. "**general public**" means any person who is not: (a) the Licensee, owner, operator or installer of the Relevant Radio Equipment; or (b) acting under a contract of employment or otherwise acting for purposes connected with their trade, business or profession or the performance by them of a public function;<sup>9</sup>
  - e. "**ICNIRP Guidelines**" means the version of the Guidelines published by the International Commission on Non-Ionizing Radiation Protection for limiting exposure to electromagnetic fields which are identified in Ofcom's "Guidance on EMF Compliance and Enforcement" that is in force at the relevant time.<sup>10</sup>

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<sup>9</sup> There is pre-existing health and safety legislation which already requires employers to protect workers from exposure to electromagnetic fields ("EMF") including the following legislation specifically relating to EMF (as amended from time to time): [The Control of Electromagnetic Fields at Work Regulations 2016](#), [The Control of Electromagnetic Fields at Work Regulations \(Northern Ireland\) 2016](#) and [The Merchant Shipping and Fishing Vessels \(Health and Safety at Work\) \(Electromagnetic Fields\) Regulations 2016](#).

<sup>10</sup> Ofcom's "Guidance on EMF Compliance and Enforcement" will initially require the Licensee to comply with the ICNIRP Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300 GHz), published in: Health Physics 74(4):494-522, dated April 1998 and available at: <https://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf> ("1998 Guidelines") or the ICNIRP Guidelines for limiting exposure to electromagnetic fields (100 KHz to 300 GHz), published in: Health Physics 118(5): 483-524; 2020 and available at: <https://www.icnirp.org/cms/upload/publications/ICNIRPrfgdl2020.pdf> ("2020 Guidelines"). However, once work on the relevant standards explaining the methodology for assessing compliance with the 2020 Guidelines has progressed sufficiently, Ofcom will publish a public consultation on

- f. **“Licensee’s On-Site Radio Equipment”** means the Relevant Radio Equipment and any other wireless telegraphy station(s) and wireless telegraphy apparatus on the same site which transmits at powers higher than 10 Watts EIRP or 6.1 Watts ERP.<sup>11</sup>
- g. **“Relevant Radio Equipment”** means all the Radio Equipment that is authorised by this Licence to transmit at powers higher than 10 Watts EIRP or 6.1 Watts ERP.
- h. **“Shared Site Exemption”** means any of the following three situations apply on a shared site in relation to the Licensee’s or another licensee’s wireless telegraphy station(s) or wireless telegraphy apparatus that is authorised to transmit at powers higher than 10 Watts EIRP or 6.1 Watts ERP:
  - i. The first situation is that all of the licensee’s wireless telegraphy station(s) or wireless telegraphy apparatus on a shared site do not transmit at a combined total radiated power in any particular direction<sup>12</sup> that is higher than 100 Watts EIRP or 61 Watts ERP;<sup>13</sup>
  - ii. The second situation is that the total electromagnetic field exposure levels produced by the licensee’s wireless telegraphy station(s) or wireless telegraphy apparatus in any area where a member of the general public is or can be expected to be present when transmissions are taking place is no more than 5% of the basic restrictions or 5% of the reference levels in the relevant tables for general public exposure identified in the ICNIRP Guidelines;<sup>14</sup>
  - iii. The third situation is where the licensee’s wireless telegraphy station or wireless telegraphy apparatus has an antenna gain that is equal to or higher than 29 dBi and has a fixed beam;
- i. **“shared site”** means a site that is shared by the Licensee and at least one other licensee for the purposes of establishing, installing, modifying or using wireless telegraphy stations or wireless telegraphy apparatus;
- j. **“site”** means a physical structure, building, vehicle or moving platform;
- k. **“wireless telegraphy apparatus”** has the meaning given to it in section 117 of the Wireless Telegraphy Act 2006; and
- l. **“wireless telegraphy station”** has the meaning given to it in section 117 of the Wireless Telegraphy Act 2006.

## Ofcom

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updating its “Guidance on EMF Compliance and Enforcement” to explain that going forward Ofcom will be requiring the Licensee to comply with the 2020 Guidelines only. Following this public consultation, Ofcom will publish an updated version of Ofcom’s “Guidance on EMF Compliance and Enforcement” on its website. Ofcom will follow the same process for any subsequent versions of the ICNIRP Guidelines.

<sup>11</sup> 10 Watts EIRP is equivalent to 6.1 Watts ERP. In linear units  $EIRP (W) = 1.64 \times ERP (W)$ ; in decibels  $EIRP (dB) = ERP (dB) + 2.15$ . Ofcom’s “Guidance on EMF Compliance and Enforcement” explains how the Licensee can determine if wireless telegraphy station(s) or wireless telegraphy apparatus “transmits at powers higher than 10 Watts EIRP or 6.1 Watts ERP”.

<sup>12</sup> For the purpose of this situation, the combined total radiated power is a simple sum of the radiated powers (in EIRP or ERP) of all of the licensee’s wireless telegraphy station(s) or wireless telegraphy apparatus on the shared site that transmits signals covering the same or overlapping areas.

<sup>13</sup> 100 Watts EIRP is equivalent to 61 Watts ERP.

<sup>14</sup> The relevant tables for general public exposure are identified in Ofcom’s “Guidance on EMF Compliance and Enforcement”.