



STATUTORY INSTRUMENTS.

**S.I. No. 417 of 2025**

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WIRELESS TELEGRAPHY (RAILWAY MOBILE RADIO LICENCE)  
REGULATIONS 2025

WIRELESS TELEGRAPHY (RAILWAY MOBILE RADIO LICENCE)  
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The Commission for Communications Regulation, in exercise of the powers conferred on it by section 6(1) of the Wireless Telegraphy Act 1926 (No. 45 of 1926) as substituted by section 182 of the Broadcasting Act 2009 (No. 18 of 2009), and with the consent of the Minister for Culture, Communications and Sport (as adapted by the Tourism, Culture, Arts, Gaeltacht, Sport and Media (Alteration of Name of Department and Title of Minister) Order 2025 (S.I. No. 236 of 2025)) in accordance with section 37 of the Communications Regulation Act 2002 (No. 20 of 2002), hereby makes the following Regulations:

*Citation*

1. These Regulations may be cited as the Wireless Telegraphy (Railway Mobile Radio Licence) Regulations 2025.

*Interpretation and Definitions*

2. (1) In these Regulations, except where the context otherwise requires:
  - “900 MHz Band” means the paired frequency bands 874.4-880.0 MHz and 919.4-925.0 MHz;
  - “1900 MHz Band” means the unpaired frequency band 1900-1910 MHz;
  - “Act of 1926” means the Wireless Telegraphy Act 1926 (No. 45 of 1926);
  - “Act of 1972” means the Wireless Telegraphy Act 1972 (No. 5 of 1972);
  - “Act of 2002” means the Communications Regulation Act 2002 (No. 20 of 2002);
  - “Apparatus” means apparatus for wireless telephony as defined in section 2 of the Act of 1926;
  - “Base Station” means Apparatus connected to a backhaul network, which provides a Radiocommunication Service to RMR terminals using the 874.4-880.0 MHz, 919.4-925.0 MHz, and 1900-1910 MHz bands;
  - “Cab-Radio” means a RMR terminal installed on board the train capable of supporting voice and data applications;
  - “Commission” means the Commission for Communications Regulation established under the Act of 2002;
  - “Consumer Price Index” or “CPI” means the consumer price index as published from time to time by the Central Statistics Office;
  - “Central Statistics Office” means the Central Statistics Office of Ireland or its successor;
  - “EECC Regulations” means the European Union (Electronic Communications Code) Regulations 2022 (S.I. No. 444 of 2022);

“Electronic Communications Network” and “Electronic Communications Service” have the meanings assigned to them in the EECC Regulations;

“equivalent isotropically radiated power (‘e.i.r.p.’)” means the product of the power supplied to the antenna and the absolute or isotropic gain in a given direction relative to an isotropic antenna;

“FRMCS” means Future Railway Mobile Communication System which is a successor of GSM-R that will support railway digitalisation and service innovation;

“GSM-R” means Global System for Mobile Communications – Rail;

“Harmful Interference” has the meaning set out in the EECC Regulations;

“Infrastructure Manager” has the meaning set out in the European Union (Regulation of Railways) (Amendment) Regulations 2020 (S.I. No. 398 of 2020);

“Lease” has the meaning set out in the Transfer and Lease Regulations;

“Lessee” has the meaning set out in the Transfer and Lease Regulations;

“Lessor” has the meaning set out in the Transfer and Lease Regulations;

“Licence Fee” means the relevant fee as set out in Schedule 2 which applies to a RMR Licence;

“Licence” means a non-exclusive licence granted in accordance with section 5 of the Act of 1926 in accordance with and subject to the matters prescribed in these Regulations to keep, have possession of, install, maintain, work and use Apparatus in a specified place in the State granted to the licensee, being a RMR Licence, or a RMR Spectrum Lease Licence, or both;

“Licensee” means the holder of a Licence;

“Non-exclusive”, in relation to a Licence, means that the Commission is not precluded from authorising the keeping and having possession by persons other than the Licensee, on a Non-Interference and Non-Protected Basis, of Apparatus for wireless telephony for the radio frequency spectrum specified in the Licence;

“Non-Interference and Non-Protected Basis” means that the use of Apparatus for wireless telephony is subject to no Harmful Interference being caused to any Radiocommunication Service, and that no claim may be made for the protection of Apparatus for wireless telephony used on this basis against Harmful Interference originating from Radiocommunication Services;

“Radio Equipment Regulations” means the European Union (Radio Equipment) Regulations 2017 (S.I. No. 248 of 2017);

“Radiocommunication Service” means a service as defined in the Radio Regulations of the International Telecommunication Union involving the transmission, emission or reception of radio waves for specific telecommunication purposes;

“railway network” means the entire railway infrastructure managed by an Infrastructure Manager;

“railway infrastructure” means the items listed in Schedule 1 of S.I. No. 249 of 2015 - European Union (Regulation of Railways) Regulations 2015, as amended;

“Railway Mobile Radio” or “RMR” means GSM-R and its successor(s), including FRMCS;

“Railway Mobile Radio Licence” or “RMR Licence” means a non-exclusive Licence in the form set out in Schedule 1 granted under section 5 of the Act of 1926 to keep and have possession of apparatus for a RMR Network in a specified place in the State in accordance with and subject to the terms and conditions contained in the Licence and the matters prescribed in these Regulations;

“Railway Mobile Radio Network” or “RMR Network” means a radio communication system using GSM-R and its successor(s), and FRMCS for the operation of a national railway network;

“Railway Mobile Radio Spectrum Lease Licence” or “RMR Spectrum Lease Licence” means a non-exclusive Licence in the form set out in Schedule 3 granted under section 5 of the Act of 1926 to keep and have possession of apparatus for a RMR Network in a specified place in the State in accordance with and subject to the terms and conditions contained in the Licence and the matters prescribed in these Regulations;

“Railway Mobile Radio terminal” or “RMR terminal” is an item of mobile radio equipment under the control of the RMR network;

“Transfer” has the meaning set out in the Transfer and Lease Regulations;

“Transfer and Lease Regulations” means the Wireless Telegraphy (Transfer and Lease of Individual Rights of Use For Radio Spectrum for the Provision of Electronic Communications Networks and Services) Regulations, 2025 (S.I. No. 99 of 2025);

“Transferee” has the meaning set out in the Transfer and Lease Regulations;

“Transferor” has the meaning set out in the Transfer and Lease Regulations;

“Undertaking” means a person engaged or intending to engage in the provision of electronic communications networks or services or associated facilities;

“Wireless Telegraphy” has the same meaning as set out in section 2 of the Act of 1926.

(2) In these Regulations –

- (a) a reference to a Regulation or a Schedule is to a Regulation of, or a Schedule to, these Regulations, unless it is indicated that reference to some other enactment is intended;
- (b) a reference to a paragraph or subparagraph is to the paragraph or subparagraph of the provision in which the reference occurs unless it is indicated that reference to some other provision is intended;
- (c) a word or expression that is used in these Regulations and that is also used in the Act of 2002 has, unless the context otherwise

requires, the same meaning in these Regulations that it has in that Act; and

- (d) a word or expression that is used in these Regulations and that is also used in the EECC Regulations has, unless the context otherwise requires, the same meaning in these Regulations that it has in those Regulations.

*Licences to which these Regulations apply*

3. These Regulations apply to RMR Licences and RMR Spectrum Lease Licences.

*Limitation of Licence*

4. (1) A Licence granted under these Regulations does not grant to the Licensee named therein any right, interest or entitlement other than the right to keep, install, maintain, work and use, at specified locations in the State, Apparatus for wireless telegraphy for the purpose of the provision of a RMR Network.

(2) Nothing in these Regulations shall absolve the Licensee from any requirement in law to obtain such additional approvals, consents, licences, permissions and authorisations that may be necessary for the discharge of the obligations or the exercise of entitlements under the Licence. The Licensee is responsible for all costs, expenses and other commitments, financial and non-financial, in respect of the Licence and the operation of a RMR Network and the Commission shall bear no responsibility for such costs, expenses or commitments.

(3) A Licence shall only be granted to an Infrastructure Manager for the provision of a national RMR Network.

*Application for Licences and Form of Licences*

5. (1) An application for a Licence will be made to the Commission and shall be in writing in such form as may be determined by the Commission.

(2) A person who makes an application under paragraph (1) of this Regulation shall furnish to the Commission such information as the Commission may reasonably require for the purpose of assessing the application and carrying out its functions under the Act of 1926, the Act of 2002 and the EECC Regulations and, if the person, without reasonable cause, fails to comply with this paragraph, the Commission may refuse to grant a Licence to the person.

(3) The grant of a Licence is subject to payment of the prescribed fee as set out in Schedule 2 to these Regulations.

(4) A RMR Licence shall be in the form specified in Schedule 1 with such variation, if any, whether by addition, deletion or alteration as the Commission may determine from time to time or in any particular case in accordance with the EECC Regulations.

*Duration of Licences*

6. All RMR Licences shall expire in full at midnight on 27 November 2045, no RMR Licence shall be renewed nor shall any RMR Licence remain in effect following the expiry date and all rights and entitlements under all RMR Licences, including all spectrum rights of use, shall cease altogether as and from the expiry date. A RMR Licence granted on foot of a Transfer shall expire no later than the expiry date of the Licence of the relevant Transferee.

*Conditions of Licences*

7. (1) It shall be a condition of a Licence that:

- (a) the Licensee shall comply with these Regulations and the conditions attached to the Licence;
- (b) the Licensee shall ensure that the Apparatus is used only on such radio frequency spectrum as may be specified in the Licence and such radio frequencies shall be used in an efficient manner;
- (c) the Licensee shall make payments of the fees as set out in Schedule 2 to these Regulations, and in accordance with Regulation 10 of these Regulations;
- (d) the Licensee shall request the Commission to consider and decide on an amendment to the licence to reflect any proposed changes to the information contained in the Licence;
- (e) the Licensee shall furnish such information and reports in respect of the Licence, including relating to the Apparatus and its use as may be requested by the Commission from time to time;
- (f) The Licensee shall submit to the Commission information detailing the location(s) and technical information of deployed Apparatus under Parts 3 and 4 of the licence within 30 days of each anniversary of the commencement of the Licence, in a format as may be determined by the Commission;
- (g) the Licensee shall ensure that the Apparatus, or any part thereof, shall be installed, maintained, operated and used so as not to cause Harmful Interference;
- (h) the Licensee shall ensure compliance with any special conditions imposed under section 8 of the Act of 1972 and subject to which this Licence is deemed by subsection (3) of that section to be issued;
- (i) the Licensee shall ensure that, save as may be required by law, access to, and use of, the Apparatus is restricted to the Licensee, employees or agents of the Licensee, and persons authorised by or on behalf of the Licensee;
- (j) where the Commission is satisfied that a Licensee has failed to comply with any provision of these Regulations or a condition of the Licence, and the Commission has served on the Licensee a written notice prohibiting the use of Apparatus by such date and

time as may be specified in the notice, then the Licensee will cease to use that Apparatus on or before the applicable date and time until such notice has been withdrawn by the Commission, and the Licensee shall take such measures as may be specified by the Commission in the notice;

- (k) the Licensee shall upon becoming aware of any event likely to materially affect their ability to comply with these Regulations, or any conditions set out or referred to in the Licence, notify the Commission of that fact in writing within 5 working days;
- (l) the Licensee shall on request from an authorised officer of the Commission permit the inspection of the Apparatus, enable access to the site or sites on which the Apparatus is located and produce the associated Licence for inspection;
- (m) the Licensee shall use the spectrum rights of use granted exclusively for the operation and functioning of the Licensee's RMR Network;
- (n) the Licensee shall comply with all obligations under relevant international agreements relating to the use of apparatus or the frequencies to which they are assigned; and
- (o) ensure that all apparatus, or any part thereof, complies with the Radio Equipment Regulations.

#### *Enforcement, Amendment, Withdrawal and Suspension*

8. (1) Enforcement by the Commission of compliance by a Licensee with conditions attached to their Licence shall be in accordance with the EECC Regulations and the Communications Regulation and Digital Hub Development Agency Act 2023, and any other requirements under applicable national or European Community law.

(2) The Commission may amend the Licence from time to time where objectively justifiable and in a proportionate manner. Any amendment shall be made subject to and in accordance with the EECC Regulations, and any other requirements under applicable national or European Union law.

(3) Without prejudice to paragraph (2) of this Regulation, at the request of the Licensee, the Commission may, if it considers it appropriate to do so, amend the Licence by adding to, deleting from or altering the radio frequency spectrum specified in the Licence on which the Apparatus may be used. Any such amendment shall be effected by notice in writing from the Commission specifying the amendment and given to the Licensee or sent to the Licensee at the address specified in the Licence or notified to the Commission pursuant to the Licence.

(4) A Licence may be suspended or withdrawn by the Commission in accordance with the EECC Regulations, and any other requirements under applicable national or European Community law, including if the associated Licence of a relevant Lessor has been suspended or withdrawn under these Regulations.

*Spectrum Transfers and Leases*

9. (1) The licensee shall notify the Commission of its intention to Transfer or Lease any rights of use for radio frequencies attaching to a licence in accordance with the Transfer and Lease Regulations.

(2) The licensee may only Transfer or Lease the rights of use for radio frequencies attaching to a licence in accordance with the Transfer and Lease Regulations.

(3) The Commission may grant a licence to a Transferee in accordance with the Transfer and Lease Regulations.

(4) The Commission may grant a RMR Spectrum Lease Licence to a Lessee in accordance with the Transfer and Lease Regulations.

(5) A RMR Spectrum Lease Licence to which these Regulations apply shall be in the form specified in Schedule 3, with such variation, if any, whether by addition, deletion or alteration as the Commission may determine from time to time or in any particular case in accordance with the EECC Regulations.

(6) The commencement date and expiry date of a RMR Spectrum Lease Licence shall be set by the Commission with reference to the commencement date and expiry date of the relevant Lease and shall be specified in the RMR Spectrum Lease Licence. A RMR Spectrum Lease Licence to which these Regulations apply shall in any event expire on or before the expiry date of the Licence of the relevant Lessor.

*Licence Fees*

10. (1) Fees as set out and provided for in the fees table in Schedule 2 are hereby prescribed in relation to RMR Licences for the purpose of section 6 of the Act of 1926, as amended.

(2) The fees set out and provided for in Schedule 2 shall be payable by the Licensee to the Commission on the date of first granting of a RMR Licence and thereafter annually on or before each anniversary of the date of first granting of a RMR Licence.

(3) Fees shall be paid to the Commission by way of Electronic Funds Transfer or such other means, and on such terms (including terms as to the place of payment) as the Commission may decide. Where the date of payment falls on a Saturday, a Sunday or a public holiday, payment shall be made on or before the last working day before the date of payment.

(4) If a RMR Licence is suspended or withdrawn, the Licensee may be entitled to a refund on a pro rata monthly basis for the remaining period of the RMR Licence of the relevant fee.

(5) If a RMR Licence is suspended or withdrawn due to a finding by the Commission of non-compliance with any relevant licence conditions, the Licensee shall not be entitled to be repaid any part of the fee paid by the Licensee, but shall still be liable to pay any sums, including interest, that are outstanding.

(6) Failure by a Licensee to pay part or all of a fee required under this Regulation on or before the date it falls due shall constitute non-compliance by the Licensee concerned with these Regulations, and the Commission, in respect of such non-payment of a fee, may take enforcement action in accordance with Regulation 8 and may take steps to recover the amount due in accordance with paragraphs 7 and 8 of this Regulation.

(7) Where a fee or part of a fee is not paid in time, the Licensee concerned shall pay to the Commission interest on the fee or part thereof that was or is outstanding. Interest shall accrue from the date when such fee or part thereof fell due until the date of payment of such fee or part thereof and shall be calculated at the same rate payable in respect of late payments in commercial transactions pursuant to the European Communities (Late Payment in Commercial Transactions) Regulations 2012 (S.I. No. 580 of 2012), as amended.

(8) Any fee payable and owed by a Licensee under this Regulation may be recovered by the Commission from the Licensee as a simple contract debt in any court of competent jurisdiction.

(9) The fees for a RMR Licence granted on foot of a Transfer are the outstanding fees, if any, and annual licence fee specified in paragraphs 1 and 2 of this Regulation with respect to the rights being transferred.

#### *Transitional Arrangements*

11. (1) Subject to paragraph (2) of this Regulation, the Wireless Telegraphy (GSM for Railway Licence) Regulations 2013 (S.I. No. 213 of 2013) are hereby revoked.

(2) A licence granted under the Wireless Telegraphy (GSM for Railway Licence) Regulations 2013 (S.I. No. 213 of 2013) in force immediately before the commencement of these Regulations will continue in force as if it had run continuously from the date of its grant until its expiry date.

**SCHEDULE 1**  
**WIRELESS TELEGRAPHY ACT, 1926**  
**WIRELESS TELEGRAPHY (RAILWAY MOBILE RADIO LICENCE)**  
**REGULATIONS 2025**

**Part 1**

**Licence Number:** .....

The Commission for Communications Regulation, in exercise of the powers conferred on it by section 5(1) of the Wireless Telegraphy Act, 1926 (No. 45 of 1926), as substituted by section 182 of the Broadcasting Act 2009 (No. 18 of 2009), grants to the Licensee specified, authorisation to keep, have possession of, install, maintain, work and use Apparatus for RMR Networks as specified in Parts 3 and 4 of this Licence subject to the Licensee observing the terms and conditions and restrictions as prescribed by the Wireless Telegraphy (Railway Mobile Radio Licence) Regulations 2025 (S.I. 417 of 2025).

**Licensee:** .....

**Address:** .....

**Commencement and Termination Dates (if applicable):**

The Licence comes into effect on **DD/MM/YY** and, subject to withdrawal or suspension, expires on 27 November 2045.

Signed: .....

on behalf of the Commission for Communications Regulation

Date: .....

**Part 2**

| Frequency assignment | Commencement Date | Expiry Date |
|----------------------|-------------------|-------------|
|                      |                   |             |

**Part 3**

The Apparatus to which this Licence applies

| Equipment Index Reference | Equipment Description | Manufacturer | Model |
|---------------------------|-----------------------|--------------|-------|
|                           |                       |              |       |

**Part 4**

| Centre Frequency (MHz) | Bandwidth (kHz) | Site Identity | Latitude (decimal degrees) | Longitude (decimal degrees) | Equipment Index Reference | EIRP (dBm) |
|------------------------|-----------------|---------------|----------------------------|-----------------------------|---------------------------|------------|
|                        |                 |               |                            |                             |                           |            |

## SCHEDULE 2

### Part 1

#### **FEES PAYABLE IN CONNECTION WITH RAILWAY MOBILE RADIO LICENCES**

The annual fee payable for a RMR Licence (“Licence Fee”) is equal to the fee for that RMR Licence in the base year of 2025 (the “Base Fee”), indexed to the annual rate of inflation since 2025 using the Consumer Price Index. The inflation adjustment is set in the following formula as follows:

$$\text{Indexing Multiplier} = \frac{CPI_t}{CPI_{2025}} * 100$$

Where  $CPI_t$  represents the 12-month Consumer Price Index published by the Central Statistics Office, for year  $t$ , the year immediately preceding the application.  $CPI_{2025}$  represents the 12-month Consumer Price Index figures published by the Central Statistics Office for 2025. The first indexation shall take place on the 1<sup>st</sup> of August 2025 and shall occur annually thereafter on that same date.

The annual fee indexed to the Consumer Price Index is equal to:

$$C = A \times B$$

Where:

- A is the base fee for an annual Licence; and
- B is the CPI adjustment for the relevant period.

The Base Fees for a RMR Licence are set out in table 1 and table 2 below.

**Table 1: Base Fee for a RMR Licence in the 900 MHz Band**

| Frequency Band | Base Fee per MHz (to be adjusted for CPI) |
|----------------|---|
| 900 MHz        | €28,005                                   |

**Table 2: Base Fee for a RMR Licence in the 1900 GHz RMR Band**

| Frequency Band | Base Fee per MHz (to be adjusted for CPI) |
|----------------|---|
| 1900 MHz       | €14,733                                   |

Part 2  
TECHNICAL CONDITIONS OF LICENCE

**Section 1: Technical conditions for GSM-R in 874.4-880.0 MHz and 919.4-925.0 MHz bands**

For GSM-R, the following parameters apply:

- GSM-R Downlink centre frequency  $f_{DL} = 921 \text{ MHz} + n \times 0.2 \text{ MHz}$  where  $\{n \in \mathbb{Z} | -7 \leq n \leq 19\}$ ;
- GSM-R Uplink centre frequency  $f_{UL} = f_{DL} - 45 \text{ MHz}$ ; and
- GSM-R channel bandwidth is 200 kHz.

**Table 1: In-block requirements for GSM-R Base Stations in 919.4-921 MHz uncoordinated deployment**

| GSM-R channel bandwidth | Maximum e.i.r.p.   |
|-------------------------|--|
| 200 kHz                 | $= 70.5 \text{ dBm} + (f_{DL} - 921) \times 40/3 \text{ dB}$ |

$f_{DL}$  is the centre frequency in MHz

There is no e.i.r.p. restriction on GSM-R Base Stations transmitting in the 921-925 MHz frequency band. Formula applicable to  $f_{DL} \leq 921 \text{ MHz}$ . To allow higher e.i.r.p., the implementation of a coordination procedure or other mitigation measures must be applied.

**Section 2: Technical conditions for a single wideband RMR carrier in 874.4-880.0 MHz and 919.4-925.0 MHz bands**

**Technical conditions for RMR Base Stations using wideband technologies**

The technical conditions defined in this section are in the form of a block-edge mask (BEM) applicable to wideband RMR Base Stations. The technical conditions defined in this section are valid for a single RMR carrier using wideband technologies. Base Stations using active antenna systems are prohibited.

For radio access technologies other than GSM-R, the following parameters apply:

- The lower edge of the lowest Resource Block shall be  $\geq 919.6 \text{ MHz}$ .

**Table 2: General in-block requirement**

| RMR channel bandwidth     | Maximum e.i.r.p.   |
|---------------------------|--|
| For any channel bandwidth | <p>The following value may be used in case an upper bound is desired:</p> $= \text{Min } \{65 \text{ dBm/channel, Maximum e.i.r.p. specific to the channel bandwidth}\}$ |

**Table 3: Specific in-block requirements for 5.6 MHz and 5 MHz channels mandatory for uncoordinated deployment**

| RMR channel bandwidth | Maximum e.i.r.p.                                     |
|-----------------------|--|
| 5.6 MHz               | = 62 dBm/5.6 MHz                                     |
| 5 MHz                 | = 64.5 dBm/5 MHz + (f <sub>DL</sub> - 922.1)×40/3 dB |

f<sub>DL</sub> is the centre frequency in MHz.  
NB-IoT in-band operation mode without power boost is allowed. NB-IoT guard-band operation mode and in-band operation mode with power boost are not allowed.

**Table 4: Specific in-block requirements for 1.4 MHz and 200 kHz channels mandatory for uncoordinated deployment**

| RMR channel bandwidth | Maximum e.i.r.p.   |
|-----------------------|--|
| 1.4 MHz               | = 56 dBm/1.4 MHz + (f <sub>DL</sub> - 920.2)×40/3 dB<br>(Note 1) |
| 200 kHz (Note 2)      | = 70.5 dBm/200 kHz + (f <sub>DL</sub> - 921)×40/3 dB<br>(Note 3) |

f<sub>DL</sub> is the centre frequency in MHz.  
Note 1: Formula applicable to f<sub>DL</sub> ≤ 921.7 MHz. No specific e.i.r.p. restriction above.  
Note 2: Applicable to NB-IoT standalone operation mode, which is made of one Resource Block.  
Note 3: Formula applicable to f<sub>DL</sub> ≤ 921.0 MHz. No specific e.i.r.p. restriction above

**Table 5: Out-of-band requirements**

| MHz from block edge (919.4-925 MHz) | e.i.r.p. limit   |
|-------------------------------------|------------------|
| 0 ≤ Δf < 0.2                        | 32.5 dBm/200 kHz |
| 0.2 ≤ Δf < 1                        | 14 dBm/800 kHz   |
| 1 ≤ Δf < 10                         | 5 dBm/MHz        |

**Table 6: Baseline requirement**

| Frequency range | e.i.r.p. limit |
|-----------------|----------------|
| 880-915 MHz     | -49 dBm/5 MHz  |

This requirement prevails over out-of-band requirements.

### **Technical conditions for RMR cab-radio using wideband technologies**

For radio access technologies other than GSM-R, the following parameters apply:

- Maximum output power: higher than 23 dBm and up to 31 dBm;
- Adjacent Channel Leakage power Ratio (“ACLR”): 37 dB minimum; and
- Uplink power control is mandatory and shall be activated.

### **Technical conditions for RMR terminals other than cab-radios, using wideband technologies**

For radio access technologies other than GSM-R, the following parameters apply:

- Maximum output power: 23 dBm;
- ACLR: 30 dB minimum;
- Uplink power control is mandatory and shall be activated.

### **Technical conditions for RMR receivers using wideband technologies**

The 874.4-880.0 MHz and 919.4-925.0 MHz bands can be accessed if techniques to access spectrum and mitigate interference that provide an appropriate level of receiver performance to comply with the essential requirements of Directive 2014/53/EU are used. Where relevant techniques are described in harmonized standards or parts thereof the references of which have been published in the Official Journal of the European Union in accordance with Directive 2014/53/EU, performance at least equivalent to the performance level associated with those techniques shall be ensured.

**Table 7: Requirements on wideband RMR Base Station receiver characteristics**

| Parameter  | Value          |
|--|----------------|
| Level of the wanted signal                           | RefSens + 3 dB |
| Maximum interfering signal in 870-874.4 MHz (Note 1) | -34 dBm        |

The antenna connector of the radio module is the reference point. The reference sensitivity (RefSens) is the minimum mean power received at the antenna connector at which a specified minimum performance shall be met.

These requirements cover both blocking and third-order intermodulation.

Note 1: A bandwidth of 200 kHz for the interfering signal is assumed.

**Table 8: Requirements only for wideband RMR cab-radio receiver characteristics**

| Parameter  | Value          |
|--|----------------|
| Level of the wanted signal   | RefSens + 3 dB |
| Maximum interfering signal in 880-918.9 MHz (Note 1)   | -26 dBm        |
| Maximum continuous wave interfering signal in 925.6-927 MHz  | -13 dBm        |
| Maximum continuous wave interfering signal in 927-960 MHz  | -10 dBm        |
| Maximum 5 MHz LTE interfering signal (lowest carrier at 927.6 MHz)   | -13 dBm        |
| <p>The antenna connector of the radio module is the reference point. The reference sensitivity (RefSens) is the minimum mean power received at the antenna connector at which a specified minimum performance shall be met.</p> <p>These requirements cover both blocking and third-order intermodulation.</p> <p>Requirements for RMR terminal receiver other than cab-radio are not covered in this table.</p> <p>Note 1: A bandwidth of 400 kHz for the RFID interfering signal is assumed.</p> |                |

### Section 3: Technical conditions for wideband RMR in 1900-1910 MHz (TDD) band

#### Technical conditions for RMR Base Stations using wideband technologies

The technical conditions defined in this section are in the form of a block-edge mask (BEM) applicable to wideband RMR Base Stations. The BEM is developed on the basis that detailed coordination and cooperation agreements would not be required to be in place prior to network deployment. Base Stations with active antenna systems are prohibited.

The following parameters apply:

**Table 9: General in-block requirement mandatory for uncoordinated deployment**

| RMR channel bandwidth | Maximum e.i.r.p. |
|-----------------------|------------------|
| 10 MHz                | = 65 dBm/10 MHz  |

**Table 10: Baseline requirement**

| Frequency range | e.i.r.p. limit |
|-----------------|----------------|
| 1920-1980 MHz   | -43 dBm/5 MHz  |

**Technical conditions for RMR cab-radio using wideband technologies**

The following parameters apply:

- Maximum output power: 31 dBm;
- ACLR: 37 dB minimum;
- Unwanted output power in 1920-1980 MHz:
  - -25 dBm/MHz maximum in 1920-1925 MHz; and
  - -30 dBm/MHz maximum in 1925-1980 MHz.
- Uplink power control is mandatory and shall be activated.

**Technical conditions for RMR terminals other than cab-radios, using wideband technologies**

The following parameters apply:

- Maximum output power: 23 dBm;
- ACLR: 30 dB minimum; and
- Uplink power control is mandatory and shall be activated.

**Technical conditions for RMR receivers using wideband technologies**

The 1900-1910 MHz band can be accessed if techniques to access spectrum and mitigate interference that provide an appropriate level of receiver performance to comply with the essential requirements of Directive 2014/53/EU are used. Where relevant techniques are described in harmonized standards or parts thereof the references of which have been published in the Official Journal of the European Union in accordance with Directive 2014/53/EU, performance at least equivalent to the performance level associated with those techniques shall be ensured.

**Table 11: Requirements on wideband RMR Base Stations receiver characteristics**

| Parameter   | Value          |
|---|----------------|
| Level of the wanted signal                            | RefSens + 3 dB |
| Maximum 5 MHz LTE interfering signal in 1805-1880 MHz | -20 dBm        |

The antenna connector of the Base Station receiver is the reference point. The reference sensitivity (RefSens) is the minimum mean power received at the antenna connector at which a specified minimum performance shall be met.

These requirements cover both blocking and third-order intermodulation.

**Table 12: Requirements only for wideband RMR cab-radio receiver characteristics**

| Parameter   | Value          |
|---|----------------|
| Level of the wanted signal                            | RefSens + 3 dB |
| Maximum 5 MHz LTE interfering signal in 1805-1880 MHz | -13 dBm        |
| Maximum 5 MHz LTE interfering signal in 1920-1980 MHz | -39 dBm        |

The antenna connector of the Base Station receiver is the reference point. The reference sensitivity (RefSens) is the minimum mean power received at the antenna connector at which a specified minimum performance shall be met.

Requirements for RMR terminal receiver other than cab-radio are not covered in this table.

These requirements cover both blocking and third-order intermodulation.

**SCHEDULE 3**  
**WIRELESS TELEGRAPHY ACT, 1926**  
**WIRELESS TELEGRAPHY (RAILWAY MOBILE RADIO LICENCE)**  
**REGULATIONS 2025**

**Railway Mobile Radio Spectrum Lease Licence granted under section 5 of  
the Wireless Telegraphy Acts 1926 to 2009 to keep and have possession of  
Apparatus for RMR Networks**

**Part 1**

**Licence Number:** .....

The Commission for Communications Regulation, in exercise of the powers conferred on it by section 5(1) of the Wireless Telegraphy Act, 1926 (No. 45 of 1926), as substituted by section 182 of the Broadcasting Act 2009 (No. 18 of 2009), grants to the Licensee specified, authorisation to keep, have possession of, install, maintain, work and use Apparatus for RMR Networks as specified in Parts 3 and 4 of this Licence subject to the Licensee observing terms and conditions and restrictions as prescribed by the Wireless Telegraphy (Railway Mobile Radio Licence) Regulations 2025 (S.I. 417 of 2025). The Licence Conditions will be specified by the Commission in accordance with the Transfer and Lease Regulations.

**Licensee:** .....

**Address:** .....

**Commencement and Termination Dates (if applicable):**

The Licence comes into effect on DD/MM/YY and, subject to withdrawal or suspension, expires on 27 November 2045.

Signed: .....

on behalf of the Commission for Communications Regulation

Date: .....

**Part 2**

| Frequency assignment | Commencement Date | Expiry Date |
|----------------------|-------------------|-------------|
|                      |                   |             |

**Part 3****The Apparatus to which this Licence applies**

| Equipment Index Reference | Equipment Description | Manufacturer | Model |
|---------------------------|-----------------------|--------------|-------|
|                           |                       |              |       |

**Part 4**

| Centre Frequency (MHz) | Bandwidth (kHz) | Site Identity | Latitude (decimal degrees) | Longitude (decimal degrees) | Equipment Index Reference | EIRP (dBm) |
|------------------------|-----------------|---------------|----------------------------|-----------------------------|---------------------------|------------|
|                        |                 |               |                            |                             |                           |            |

L.S.

GIVEN under the Official Seal of the Commission for Communications Regulation,  
1 September, 2025.

GARRETT BLANEY,  
Commissioner.

The Minister for Culture, Communications and Sport (as adapted by the Tourism, Culture, Arts, Gaeltacht, Sport and Media (Alteration of Name of Department and Title of Minister) Order 2025 (S.I. No. 236 of 2025)) in accordance with section 37 of the Communications Regulation Act, 2002, consents to the making of the foregoing Regulations.

L.S.

GIVEN under the Official Seal of the Minister for Culture, Communications and Sport,  
27 August, 2025.

PATRICK O'DONOVAN,  
Minister for Culture, Communications and Sport.

## EXPLANATORY NOTE

*(This note is not part of the Instrument and does not purport to be a legal interpretation.)*

These Regulations provide for the grant of Licences for Apparatus for RMR Networks for the regulation of such Apparatus, and for the payment of fees by persons granted Licences for that Apparatus.

BAILE ÁTHA CLIATH  
ARNA FHOILSIÚ AG OIFIG AN tSOLÁTHAIR  
Le ceannach díreach ó  
FOILSEACHÁIN RIALTAIS,  
BÓTHAR BHAILE UÍ BHEOLÁIN,  
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