

CFR NETWORK STATEMENT - 2024

# ANNEX 10 <u>Technical specifications of the radio</u> STATIONS ACCESING THE RADIO NETWORK OF CFR

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## 1. GENERAL PARAMETERS

- Operating band: 146 174 MHz
- Programmable frequency synthesis
- Channel range: 12.5 kHz / 25 kHz
- Number of switchable channels: minimum 16
- Operable frequency range: minimum 14 MHz
- Working regime: Simplex and semiduplex
- Frequency stability: 2 0.0005%
- Standard equipment: CTCSS, 2-tones

## 2. SENDER'S PARAMETERS

- Radio frequency power in antenna – max. 5 W – portable, 10W – mobile and fixed, programmable in at least two steps

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- Modulation: FM 🛽 Harmonic level: less than 0.25 🗹 W, for the frequency range of up to 1 GHz
- Signal to noise ratio: minimum 40 dB
- Audio response: 0.3 3 kHz, +1, -3dB
- Audio distortion: maximum 3% for 1000 Hz, deviation 60%



#### 3. **RECEIVER'S PARAMETERS**

- Sensitivity: less than 6.0 dBoV at a ratio of 20 dB SINAD
- Selectivity: 60 dB
- Attenuation of intermodulation products: minimum 65 dB
- Attenuation of image frequency: 70 dB
- Attenuation of parasitic radiations: 70 dB The configuration set includes:
- Programming kit (software, interface, handbook)
- Licence

### **CONFIGURATION SET**

The configuration set includes:

- Programming kit (software, interface, manual)
- license

#### 5. **REQUIRED DOCUMENTS:**

- Mentioning in the prospect of the compliance with the standard ETS 300 086
- Bulletins or approvals issued by acknowledged bodies
- Type approval issued by IGCTI (The General Inspectorate for Communications and IT Technology)

#### 6. **ANTENNAS:**

- Type: omnidirectional, gain of minimum 3 dB (only for fixed radio stations)
- Environmental conditions: they shall be fixed and resist to winds of V=120km/h, rain, frost, temperature range between -30<sub>0</sub>C and +60<sub>0</sub>C (only for fixed radio stations)

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They shall be constructively equipped with an earthing possibility (only for fixed radio stations)