

## **RO-IR 17**

### **TECHNICAL REGULATION**

**for the radio interface**

**concerning Intelligent Transport Systems (ITS)**

## 1. Basic considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was implemented in national legislation by Government Decision No. 740/2016 on making available on the market of radio equipment.

This technical regulation contains the requirements for the use of licence exempt intelligent transport systems in the specified frequency band and considers especially compliance with the provisions of Article 3 Paragraph 2 and Articles 6, 7 and 8 of Directive 2014/53/EU.

Nothing in this technical regulation shall preclude the need for equipment placed on the market in Romania to comply with Directive 2014/53/EU.

The obligations arising from Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services have been met (OJ L 241, 17.9.2015, p. 1-15).

All Romanian technical regulations for the radio interfaces notified under Directive (EU) 2015/1535 will be published and will be made available on National Authority for Management and Regulation in Communications of Romania (ANCOM) web-site at: [http://www.ancom.org.ro/reglementari-interfete\\_2723](http://www.ancom.org.ro/reglementari-interfete_2723).

## 2. Radio Interface Specifications

### Intelligent Transport Systems

Frequency band	Annex
5 875 – 5 905 MHz	RO-IR 17

For the purpose of this Technical Regulation, Intelligent Transport Systems (ITS) mean a large range of systems and services, based on Information and Communications technologies, including processing, control, positioning, communication functions and electronics, that are applied to a road transportation system.

For the purpose of this Technical Regulation, *mean equivalent isotropic radiated power (e.i.r.p.)* shall mean mediated e.i.r.p. during a transmission burst for positioning the transmitter power control that corresponds to the highest power, if power control was implemented in the transmitter.

For the purpose of this Technical Regulation, *non-interference and non-protected basis* means the interdiction that no harmful interference may be caused to any radio communications service and that no claim may be made for protection of these devices against harmful interference originating from radio communications services.

The use of radio spectrum by short-range devices is allowed on a non-interference and non-protected basis provided that such devices meet the conditions set out in the Annex.

### 3. Document history:

Edition	Changes
Edition 1/2010	Notification number according to Directive 98/34/EC: 2010/657/RO
Edition 2/2018 (06.08.2018)	Update of the legal framework according to Point 1 – „Basic considerations”. Update according to the list of Class 1 radio equipment subclasses (January 2018 version) published according to Article 1 Paragraph 3 of Commission Decision 2000/299/EC ( <a href="http://ec.europa.eu/docsroom/documents/26843">http://ec.europa.eu/docsroom/documents/26843</a> ) Formal changes according to TCAM-RSC model of November 2017.

ROMANIA	Radio Interface Specification	Intelligent Transport Systems (ITS)	RO-IR 17	Edition 2/2018
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	Nr	Parameter	Description	Comments
Normative part	1	<b>Radiocommunication Service</b>	Mobile	
	2	<b>Application</b>	Intelligent Transport Systems (ITS)	<i>Intelligent Transport Systems include cooperative systems based on vehicle-to-vehicle, vehicle-to-infrastructure and infrastructure-to-vehicle communications for the real time transfer of information.</i>
	3	<b>Frequency band</b>	5 875 – 5 905 MHz	<i>Harmonised radio spectrum for road safety-related applications of Intelligent Transport Systems (Commission Decision 2008/671/EC of 5 August 2008 on the harmonized use of radio frequencies in the 5 875-5 905 MHz frequency band for safety-related applications of Intelligent Transport Systems (ITS))</i>
	4	<b>Channelling (channel distribution)</b>	-	
	5	<b>Modulation / Occupied bandwidth</b>	-	
	6	<b>Direction / Separation</b>	-	
	7	<b>Transmit power/Power density</b>	Maximum spectral power density (mean e.i.r.p.): 23 dBm/MHz Maximum total transmit power (mean e.i.r.p.): 33 dBm	<i>These require a transmitter power control (TPC) with a beach of at least 30 dB.</i>
	8	<b>Channel access and occupation rules</b>	Techniques to mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 2014/53/EU shall be used.	
	9	<b>Authorisation regime</b>	Licence exemption	
	10	<b>Additional essential requirements (According to Article 3 Paragraph 3 of Directive 2014/53/EU)</b>	-	
	11	<b>Frequency planning assumptions</b>	-	
Informative Part	12	<b>Planned changes</b>	-	
	13	<b>Reference</b>	EN 302 571; Commission Decision 2008/671/EC of 5 August 2008 on the harmonized use of radio frequencies in the 5 875-5 905 MHz frequency band for safety-related applications of Intelligent Transport Systems (ITS); ECC/DEC/(08)01	
	14	<b>Notification number</b>	-	
	15	<b>Remarks</b>	-	

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