
TECHNICAL SPECIFICATION

Requirements for Software Defined Radio Equipment (SDR)

TS RE 042, Version 1.0

Document Date: July 3, 2019

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VERSION CONTROL

Version:	Issue Date:	Reason for Issuance:
1.0	July 3, 2019	Version 1

TABLE OF CONTENTS

1	GENERAL REQUIREMENTS	3
2	SCOPE	3
3	TECHNICAL REQUIREMENTS	3
3.1	EFFICIENT USE OF RADIO SPECTRUM.....	3
3.2	ELECTROMAGNETIC COMPATIBILITY.....	4
3.3	HEALTH AND SAFETY	4
3.4	ADDITIONAL ESSENTIAL REQUIREMENTS	4
3.5	VALIDITY OF STANDARDS	4

TS RE 042, Version 1.0

1 General requirements

Technical specification has been prepared and approved by the Telecommunications Regulatory Authority (TDRA) based on the Telecommunication apparatus Type Approval Regime.

Several technical specifications may apply to the equipment. If equipment within the scope of this technical specification also incorporates functions that are covered by another technical specification, the relevant technical specification is applied to each function separately. The influence of one function on the other is taken into account.

2 Scope

This technical specification applies to Software Defined Radio equipment (SDR).

This technical specification defines minimum technical requirements for health and safety, electromagnetic compatibility, efficient use of radio spectrum and additional essential requirements based on the Telecommunication apparatus Type Approval Regime.

Unless the context requires otherwise, the expressions and wordings appearing in the Telecommunication apparatus Type Approval Regime shall have the same meaning described thereto.

3 Technical Requirements

3.1 Efficient use of radio spectrum

The equipment shall comply with allocated frequency bands given in the National Frequency Allocation Table (NFAT).

The equipment shall meet the requirements of following standard(s):

SDR technology enables the use of multiple different waveforms on a single hardware device. It may be appropriate for different user categories on the public/private shared network to use different waveforms or to select different options within a single waveform standard. Radio spectrum requirements will be defined by TDRA on a case-by-case basis.

TS RE 042, Version 1.0

3.2 Electromagnetic compatibility

The equipment shall meet the requirements of following standard(s):

EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and
services; Part 1: Common technical requirements

3.3 Health and safety

The equipment shall meet the requirements of Technical specification TS HS 001.

3.4 Additional essential requirements

A licence must be obtained before equipment of this type can be used.

3.5 Validity of standards

If no issue or revision number is quoted along with the title of a standard, the valid edition should be used. The valid of the standard can be checked on:

- For EN standards:

http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rte/index_en.htm;