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# TECHNICAL SPECIFICATION

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## Requirements for GSM mobile terminals

TS RE 001, Version 1.0

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## 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 on Mobile Terminals is to be used in the Public Mobile Radio Communication System and services, which employ the Global System for Mobile Communications (GSM) technology. Mobile Terminals may include but not limited to handheld, portable and vehicle - mounted equipment, RF interface cards and modems.

This technical specification defines minimum technical requirements for health and safety, electromagnetic compatibility, efficient use of radio spectrum and additional essential requirements based on 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), UAE 19.

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

EN 301 511 Global system for mobile communications (GSM); Harmonised standard for mobile stations in the GSM 900 and GSM 1800 bands covering essential

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requirements under Article 3(2) of the R&TTE directive.

### 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.

EN 301 489-7 Electromagnetic compatibility and Radio spectrum Matters (ERM);  
Electromagnetic Compatibility (EMC) standard for radio equipment and  
services; Part 7: Specific conditions for mobile and portable radio and  
ancillary equipment of digital cellular radio telecommunications systems.

### 3.3 Health and safety

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

### 3.4 Additional essential requirements

Each individual Mobile Terminal shall be allocated a unique 'International Mobile Station Equipment Identity (IMEI)'. Manufacturer shall ensure that adequate security measures have been taken to protect the IMEI against duplication, unauthorised removal or change. Mobile terminal have to support Arabic language.

### 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/rtte/index\\_en.htm](http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rtte/index_en.htm);