

CST Technical Specification

General Requirements

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This technical specification is issued by The Communications, Space and Technology Commission in the Kingdom of Saudi Arabia in accordance with the provisions of the Communications and Information Technology Act issued by Royal Decree No. (M/106) dated 02/11/1443 AH and its bylaw, and the Commission's regulation.

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Document History Table

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Issue 1	March 2006	
Issue 2	September 2008	
Issue 3	December 2018	
Issue 4	July 2021	
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Table of Content

1- Scope	4
2- Enforcement	4
3- General Requirements	5
4- Limits and conditions	6

1- Scope

- 1-1 This document defines the minimum requirements, which must be met by all radio and telecommunications devices and equipment. This includes but is not limited to information and communication technology devices, radio-transmitting equipment, IT devices, modules and any equipment/device that uses any technology mentioned in the technical specifications published by CST.
- 1-2 These requirements must be applied in addition to any other specific requirements that may exist.
- 1-3 Some devices, which uses ICT technology, under the authorization of other entities are required to comply with CST technical specifications in addition to any requirements required by the other entities where an application with those entities might be required as well.
- 1-4 The technical specification GEN001 is applicable and mandatory to any ICT equipment.

2- Enforcement

- 2-1 This specification shall enter into force from issue date.
- 2-2 Any previous version of this technical specification is withdrawn.

3- General Requirements

- 3-1 All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CST. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. Please visit CST website for details.
- 3-2 If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.
- 3-3 It is required that the equipment compliance is demonstrated by producing a suitable "notified body statement" or similar type examination certificate or test report(s) obtained from a laboratory (or group of laboratories) that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.
- 3-4 To proof compliance to any given additional requirements as listed in the technical specifications, appropriate test results, measurement plots, technical explanations or declaration letters issued by the applicant might be required depending on the specific requirement.
- 3-5 Other entities within the Kingdom of Saudi Arabia may have other requirements and it is the responsibility of the user to comply with their requirements.
- 3-6 Further information on the characteristics and presentation of network interfaces can be obtained by coordinating with Saudi network operators.

4- Limits and conditions

The following standards must be complied with where applicable:

4-1 Electrical Safety:

EN 62368-1 or IEC 62368-1

Audio/video, information and communication technology equipment -
Part 1: Safety requirements

4-2 RF Exposure:

EN 50360

Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz).

EN 50364 Ed.2

Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications.

EN 62479:2010

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

EN 50385

Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110 MHz-40 GHz) - General public.

EN 50566

Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body.

EN 62311:2008

Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)

EN 62209-1528

Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)

EN 62209-3

Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 3: Vector probe systems (Frequency range of 100 MHz to 6 GHz)

KDB 447498

**RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION
POLICIES FOR MOBILE AND PORTABLE DEVICES**

4-3 Optical and Laser:

EN 60825 or IEC 60825

Safety of laser products

4-4 EMC Electro Magnetic Compatibility:

EN 55032

Electromagnetic compatibility of multimedia equipment - Emission Requirements.

EN 55035

Electromagnetic compatibility of multimedia equipment - Immunity requirements.

EN 301 489

Electromagnetic Compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and services.

EN 61000-3-2 or IEC 61000-3-2

Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase).

EN 61000-3-3 or IEC 61000-3-3

Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.

EN 61000-3-11 or IEC 61000-3-11

Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection.

EN 61000-6-1 or IEC 61000-6-1

Part 6-1: Generic standards - Immunity for residential, commercial and light- industrial environments.

EN 61000-6-2 or IEC 61000-6-2

Part 6-2: Generic standards - Immunity for industrial environments.

EN 61000-6-3 or IEC 61000-6-3

Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments.

EN 61000-6-4 or IEC 61000-6-4

Part 6-4: Generic standards - Emission standard for industrial environments If no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

The mentioned referenced documents are indispensable for the application of this document. If no issue or revision number is quoted along with the title of a technical specification or standard, the latest published version should be used.