

CST Technical Specification

Specification for Voice over IP Equipment

Document Number: IT002
Revision: Issue 03
Date: Feb 2023

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

| Version | Issue Date | Description |
|---------|--------------|-------------|
| Issue 1 | January 2010 | |
| Issue 2 | July 2021 | |
| Issue 3 | Feb 2023 | |

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1- Scope

- 1-1 This specification applies to Voice over IP Equipment.
- 1-2 Voice over IP equipment is using the Internet Protocol IP to transfer voice data.

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- 2-2 Any previous version of this technical specification is withdrawn.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 equipment must comply with the requirement of CST specification GEN001, be safe and must not adversely affect other electrical equipment.
- 3-2 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 www.CST.gov.sa for details.
- 3-3 If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.
- 3-4 Further information on the characteristics and presentation of network interfaces can be obtained by coordinating with the mobile network operators.
- 3-5 It is mandatory that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

4- Limits and conditions

Testing should be carried out to ensure compliance with the following specifications where applicable:

- 4-1 ES 202 737
- 4-2 ES 202 738
- 4-3 ES 202 739
- 4-4 ES 202 740

5- Licensing Requirements

Following Licenses are required for the public usage of (Public Voice over IP) equipment:

- 5-1 Facilities-Based Unified Telecommunications Services License
- 5-2 Facilities-Based Fixed Telecommunications Services License
- 5-3 MVNO License, (Mobile Virtual Telecommunications Services License)
- 5-4 Permit to provide virtual voice services (VVSP)

6- Additional Requirements

Voice over IP equipment are allowed for private usage only.

7- References

The following 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.

ES 202 737

Speech and multimedia Transmission Quality (STQ); Transmission requirements for narrowband VoIP terminals (handset and headset) from a QoS perspective as perceived by the user

ES 202 738

Speech and multimedia Transmission Quality (STQ); Transmission requirements for narrowband VoIP loud speaking and handsfree terminals from a QoS perspective as perceived by the user

ES 202 739

Speech and multimedia Transmission Quality (STQ); Transmission requirements for wideband VoIP terminals (handset and headset) from a QoS perspective as perceived by the user

ES 202 740

Speech and multimedia Transmission Quality (STQ); Transmission requirements for wideband VoIP loud speaking and handsfree terminals from a QoS perspective as perceived by the user

ITU-T Recommendation P.830

Subjective performance assessment of telephone-band and wideband digital codecs