

## CST Technical Specification

# Specification for Point to Point and Point to Multipoint Radio Equipment

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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

Version	Issue Date	Description
Issue 1	March 2006	
Issue 2	January 2010	
Issue 3	July 2021	Merge of RI031 “Specification for Point to Point (PP) Radio Fixed Links” with RI032 “Specification for Multipoint (PMP) Radio Fixed Links” into one technical specification.
Issue 4	October 2023	

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## 1- Scope

- 1-1 This specification applies to point-to-point and point-to-multipoint radio fixed links.
- 1-2 Point to point and point to multipoint links are used to transmit data via radio signals between two, point to point, or more, point to multipoint, fixed installations.

## 2- Enforcement

- 2-1 This specification shall enter into force on 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- 2-2 Any previous version of this technical specification is withdrawn.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 CST website 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 listed specifications.

Frequency band	Max Output Power or Magnetic Field	Usage	Standard	Comments
Subject to licensing	Subject to licensing	P2P	EN 302 217-2-2 EN 302 217-3 EN 302 217-4-2 EN 301 489-4	
Subject to licensing	Subject to licensing	P2MP	EN 302 326-2 EN 302 326-3 EN 301 489-4	

## 5- Licensing Requirements

- A spectrum license is required.
- The following Licenses are also required for the usage and importation of point-to-point and point-to-multipoint equipment:
  - Facilities-Based Unified Telecommunications Services License
  - Facilities-Based Fixed Telecommunications Services License

## 6- Additional Requirements

There is no additional requirements for this technical specification.

## 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.

### **EN 302 326-2**

Fixed Radio Systems – Multipoint Equipment and Antennas - Part 2: Multipoint Radio Equipment; Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE directive.

### **EN 302 326-3**

Fixed Radio Systems – Multipoint equipment and antennas - Part 3: Multipoint Radio Antennas; Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE directive .

### **EN 302 217-2-2**

Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2-2: Digital systems operating in frequency bands where frequency co-ordination is applied; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

### **EN 302 217-3**

Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 3: Equipment operating in frequency bands where both frequency coordinated or uncoordinated deployment might be applied; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

### **EN 302 217-4-2**

Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 4-2: Antennas; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

### **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 301 489-4**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services.