ICS 49.140
CCS V 75



# NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# GB/T 39352-2020

## Space data and information transfer systems. Proximity space link protocol. Data link layer

**Issued on: November 19, 2020** **Implemented on: June 1, 2021**

**Issued by: State Administration for Market Regulation, China National Standardization Administration**

# Table of Contents

## Foreword

This standard was drafted in accordance with the rules given in GB/T 1:1-2009:

This standard uses the redrafting method to modify and adopt ISO 22663:2015 "Space Data and Information Transmission System Proximity-1 Space Link Agreement"

Discussion on the Data Link Layer:

Compared with ISO 22663:2015, this standard has many adjustments in structure: Appendix A lists this standard and ISO 22663:2015:

The chapter number comparison list:

Compared with ISO 22663:2015, there are technical differences between this standard, and

the clauses involved in these differences have been passed on the outer margins:

The vertical single line (?) is marked, and a list of the corresponding technical differences and their reasons is given in Appendix B:

This standard also made the following editorial changes:

---Modified the standard name: the original name "spatial data and information transmission system adjacent-1 space link protocol data link layer"

Changed to "Space Data and Information Transmission System Adjacent Space Link Protocol Data Link Layer";

--- Deleted part of the document structure and references in Chapter 1 of ISO 22663:2015;

--- Deleted Appendix F of ISO 22663:2015 "NASA Mars Survey Program:2001 Orbiter Close Space Link

ability";

--- Deleted Appendix G of ISO 22663:2015 "NASA Mars Reconnaissance Orbiter:2005 Neighboring Space Link Capability";

--- Deleted Appendix H "References" of ISO 22663:2015;

---Delete ISO 22663:2015 Appendix J "Proximity-1 Data Format Hierarchy":

This standard was proposed and managed by the National Aerospace Technology and Application Standardization Technical Committee (SAC/TC425):

Drafting organizations of this standard: Beijing Space Vehicle General Design Department, Beijing Institute of Control Engineering, Anhui China Institute of Standardization

Co:, Ltd:, China Aerospace Standardization Institute:

## 1 Scope

This standard specifies the general rules and protocol data sheet of the data link layer in the adjacent space link protocol of space data and information transmission systems:

Meta, data link layer structure, time service, data service operation, communication operating procedures (COP-P) and I/O sub-layer operation:

This standard applies to communications between adjacent spacecraft: It is recommended to be used together with GB/T 39354 and GB/T 39353-2020:

## 2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article