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**Space data and information transfer systems. Communications
operation procedure-1**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting law to amend and adopt ISO 22667.2013 "Space Data and Information Transmission System Communication Operating Regulations-1".

Compared with ISO 22667.2013, this standard has many structural adjustments. Appendix

A lists this standard and ISO 22667.2013

A list of chapter number comparisons.

Compared with ISO 22667.2013, there are technical differences between this standard and the clauses involved in these differences have been passed on the outer margins.

The set 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.

- Deleted part of the document structure and references in Chapter 1 of ISO 22667.2013;
- Changed Appendix A "Abbreviations" in ISO 22667.2013 to 4.2;
- Deleted the informative appendix B "References" of ISO 22667.2013;
- Deleted the informative appendix D of ISO 22667.2013 "Reference B2 Change Description".

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

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1 Scope

This standard specifies the concept, service types, inter-procedural interfaces, communication operating procedures of spatial data and information transmission systems-1 (COP-1)

Detailed service definition, frame operation procedure-1, frame acceptance and reporting mechanism-1, management parameters.

This standard applies to remote data communication between users on the spatial data link.

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 document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 39350 Spatial Data and Information Transmission System Remote Control Spatial

Data Link Protocol (GB/T 39350-2020, ISO 22664.2016, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Communication operating procedures

A sequence composed of several orderly actions is used to ensure the correctness, completeness and continuity of data when transmitting remote control application data in an error channel.

Note. Generally, it is composed of two entities: the frame operation procedure (FOP) of the sender and the frame receiving and reporting mechanism (FARM) of the receiver.

3.2

Communication operating procedures-1

A communication operation procedure that uses the sequence number of frames to ensure sequential reception and retransmission.

Note. COP-1 is currently recommended by CCSDS.

3.3

Frame operation procedures

The steps performed when the sender transmits a remote control transfer frame, FOP uses the following remote control channel service to perform a transfer sequence

At the time, the action of FOP is determined by the rules of COP and the FARM status information returned by the telemetry CLCW.

3.4

Frame Operation Procedure-1

A frame operation procedure corresponding to the COP-1 rule response.

3.5

Frame acceptance and reporting mechanism

A set of steps performed by the receiving end to determine whether to accept a remote control transmission frame, and to determine how to control the word through the communication link

(CLCW) Report operation and status to the sender FOP.