INTERNATIONAL STANDARD

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Space data and information transfer systems — Space link extension (SLE) — Forward communications link transmission unit (CLTU) service

Systèmes de transfert des données et informations spatiales — Extension de liaisons spatiales (SLE) — Service de l'unité de transmission pour la liaison d'envoi de télécommande (CLTU)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

This second edition cancels and replaces the first edition (ISO 22671:2005), which has been technically revised.

ISO 22671 was prepared by the Consultative Committee for Space Data Systems (CCSDS) (as CCSDS 912.1-B-2, November 2004) and was adopted (without modifications except those stated in Clause 2 of this International Standard) by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 13, *Space data and information transfer systems*.

Space data and information transfer systems — Space link extension (SLE) — Forward communications link transmission unit (CLTU) service

1 Scope

This International Standard defines the communications link transmission unit (CLTU) service in conformance with the transfer services specified in ISO 15396:1998. The forward CLTU service is a space link extension (SLE) transfer service that enables a mission to send communications link transmission units (CLTUs) to a spacecraft.

This International Standard defines, in an abstract manner, the forward CLTU service in terms of

— the operations necessary to provide the transfer service;

— the parameter data associated with each operation;

— the behaviors that result from the invocation of each operation; and

— the relationship between, and the valid sequence of, the operations and resulting behaviors.

It does not specify

— individual implementations or products;

— the implementation of entities or interfaces within real systems;

— the methods or technologies required to radiate data to a spacecraft and to acquire telemetry frames from the signals received from that spacecraft for extraction of the Operational Control Field;

— the methods or technologies required for communications; or

— the management activities necessary to schedule, configure, and control the forward CLTU service.

The scope and field of application are furthermore detailed in subclause 1.3 of the enclosed CCSDS publication.

2 Requirements

Requirements are the technical recommendations made in the following publication (reproduced on the following pages), which is adopted as an International Standard:

CCSDS 912.1-B-2, November 2004, *Space link extension — Forward CLTU service specification.*

For the purposes of international standardization, the modifications outlined below shall apply to the specific clauses and paragraphs of publication CCSDS 912.1-B-2.