

Space engineering - Adoption Notice of CCSDS
732.0-B-3, AOS Space Data Link Protocol

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 16603-50-23:2022 sisaldab Euroopa standardi EN 16603-50-23:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 16603-50-23:2022 consists of the English text of the European standard EN 16603-50-23:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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English version

Space engineering - Adoption Notice of CCSDS 732.0-B-3, AOS Space Data Link Protocol

Ingénierie spatiale - Notice d'adoption de la CCSDS
732.0-B-3, AOS Space Data Link Protocol

Raumfahrttechnik - Adaption CCSDS 732.0-B-3, AOS-
Weltraum-Datenübertragungsprotokoll

This European Standard was approved by CEN on 13 March 2022.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN and CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Foreword

This document (EN 16603-50-23:2022) has been prepared by Technical Committee CEN-CENELEC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16603-50-23:2022) originates from ECSS-E-AS-50-23C.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2023, and conflicting national standards shall be withdrawn at the latest by January 2023.

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

EN 16603-50-22 and EN 16603-50-23 will together supersede EN 16603-50-03:2014.

The main changes with respect to EN 16603-50-03:2014 are listed below:

- Replacement of document by two Adoption Notices.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any EN covering the same scope but with a wider domain of applicability (e.g. : aerospace).

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document identifies the clauses and requirements modified with respect to the standard CCSDS 732.0-B-3, *AOS Space Data Link Protocol*, Issue 3, September 2015 for application in ECSS.

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Context information

In the standard CCSDS 732.0-B-3 “AOS Space Data Link Protocol” CCSDS specifies a data link layer protocol for the efficient transfer of space application data of various types and characteristics over space links. The protocol specified in CCSDS 732.0-B-3 “AOS Space Data Link Protocol” has a similar purpose as CCSDS 132.0-B-2 “TM Space Data Link Protocol” and supports some features not available in the TM Space Data Link Protocol.

This Adoption Notice adopts and applies CCSDS 732.0-B-3 with a minimum set of modifications, identified in the present document, to allow for reference and for a consistent integration in the ECSS system of standards.

EN 16603-50-03:2014 (based on ECSS-E-ST-50-03) is superseded by the following two Adoption Notices: EN 16603-50-22 (ECSS-E-AS-50-22) and EN 16603-50-23 (ECSS-E-AS-50-23). EN 16603-50-03 (based on ECSS-E-ST-50-03) was limited to the TM Transfer Frame: it did not include the AOS Transfer Frame.

Overview of superseded EN 16603-50-xx Standards

Superseded EN	New EN	Based on CCSDS
EN 16603-50-01:2014	EN 16603-50-21	CCSDS 131.0-B-3 (Sept. 2017)
EN 16603-50-03:2014	EN 16603-50-22	CCSDS 132.0-B-2 (Sept. 2015)
	EN 16603-50-23	CCSDS 732.0-B-3 (Sept. 2015)
EN 16603-50-04:2014	EN 16603-50-24	CCSDS 231.0-B-3 (Sept. 2017)
	EN 16603-50-25	CCSDS 232.0-B-3 (Sept. 2015)
	EN 16603-50-26	CCSDS 232.1-B-2 (Sept. 2010)

Abbreviated terms

Abbreviation	Meaning
AOS	Advanced Orbiting Systems
SDLS	Space Data Link Security