ICS 49.140 SLOVENSKÁ TECHNICKÁ NORMA Február 2018

STN	**Kozmická technika** **Manažérstvo rozhrania**	**STN** **EN 16603-10-24** 31 0543

Space engineering - Interface management

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/18

Obsahuje: EN 16603-10-24:2017

126092

EUROPEAN STANDARD **EN 16603-10-24**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2017

ICS 49.140

English version

Space engineering - Interface management

Ingénierie spatiale - Gestion des interfaces

Raumfahrttechnik - Schnittstellenmanagement

This European Standard was approved by CEN on 22 August 2016.

CEN-CENELEC Management Centre:
Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 16603-10-24:2017 E

Table of contents

Figures

Tables

European foreword

This document (EN 16603-10-24:2017) has been prepared by Technical Committee CEN-CENELEC/TC 5 “Space”, the secretariat of which is held by DIN.

This standard (EN 16603-10-24:2017) originates from ECSS-E-ST-10-24C.

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of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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

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.

Introduction

The management and control of interfaces is crucial to the success of space programmes and projects. Interface management is a process to assist in controlling product development when efforts are divided amongst different parties (e.g. agencies, contractors, geographically dispersed technical teams). Interface control is also needed to define, achieve and maintain compliance between products and actors that interoperate.

The application of this standard to a project is expected to bring the following benefits:

- a consistent, coherent and commonly used approach – including documentation – throughout industry and across different projects;
- effective and efficient product interface management;
- minimize the risk of interface incompatibilities;
- high confidence in achieving successful product operations for the intended use.

1 Scope

The objective of interface management is to achieve functional and physical compatibility amongst all interrelated items in the product tree. The goal of this standard is to define a common and systematic process to meet the objective.

This standard describes a standard process and methodology for interface management throughout the life cycle, in terms of identification, requirements specification, definition, approval and control, implementation, verification and validation of interfaces, within a space programme or project and in accordance with the other relevant ECSS standards.

In line with the definition of the Space System breakdown in Figure 2-1 of ECSS-S-ST-00-01, this standard is applicable to the following interfaces, where a contractual relationship exist among parties:

- within the Space Segment
- within the Ground Segment
- between the Space Segment and the Ground Segment
- between Space Segment and Launch Segment only for ICD aspects in conformance to the launcher user manual.

This standard does not ensure that all the specificities of interfaces within the Launch Segment are covered.

This standard is applicable to development of products at all different levels in the product tree. It is applicable to both the customer and the supplier of the product during all project phases (0 to F) and follows the generic ECSS customer/supplier pattern.

This standard may be tailored for the specific characteristics and constrains of a space project in conformance with ECSS-S-ST-00.

2
Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this ECSS Standard. For dated references, subsequent amendments to, or revision of any of these publications do not apply. However, parties to agreements based on this ECSS Standard are encouraged to investigate the possibility of applying the more recent editions of the normative documents indicated below. For undated references, the latest edition of the publication referred to applies.

EN reference	Reference in text	Title
EN 16601-00-01	ECSS-S-ST-00-01	ECSS - Glossary of terms
EN 16003-10	ECSS-E-ST-10	Space engineering - System engineering general requirements
EN 16003-10-02	ECSS-E-ST-10-02	Space engineering - Verification
EN 16003-10-06	ECSS-E-ST-10-06	Space engineering - Technical requirements specification
EN 16001-10	ECSS-M-ST-10	Space project management - Project planning and implementation
EN 16001-40	ECSS-M-ST-40	Space project management - Configuration and information management
EN 16002-10-09	ECSS-Q-ST-10-09	Space product assurance - Nonconformance control system