



SLOVENSKI STANDARD

SIST EN 9227-1:2025

01-julij-2025

Aeronavtika - Vodenje programov - Vodilo za nadzor zanesljivosti in varnosti

Aerospace series - Programme management - Guide to dependability and safety control

Luft- und Raumfahrt - Programm-Management - Richtlinien für die RAMS-Management

Série aérospatiale - Management de programme - Guide pour la maîtrise de la sûreté de fonctionnement

Ta slovenski standard je istoveten z: EN 9227-1:2025

ICS:

03.100.40	Raziskave in razvoj	Research and development
49.020	Letala in vesoljska vozila na splošno	Aircraft and space vehicles in general

SIST EN 9227-1:2025

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 9227-1

May 2025

ICS 49.140

English Version

**Aerospace series - Programme management - Guide to
dependability and safety control**

Série aérospatiale - Management de programme -
Guide pour la maîtrise de la sûreté de fonctionnement

Luft- und Raumfahrt - Programm-Management -
Richtlinien für die RAMS-Management

This European Standard was approved by CEN on 7 April 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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 member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

SIST EN 9227-1:2025

<https://standards.iteh.ai/catalog/standards/sist/5a25a211-9ea1-47cf-9cfe-c466b42b4f4a/sist-en-9227-1-2025>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 List of acronyms	10
5 Fundamental notions and principles.....	12
6 Organizational provisions	13
6.1 RAMS positioning in relation to the programme.....	13
6.2 RAMS resources.....	14
6.3 Distribution of the responsibilities for RAMS	15
6.3.1 Responsibilities of the customer.....	15
6.3.2 Responsibilities of the users.....	15
6.3.3 Responsibility of the suppliers	16
6.4 Documentation management.....	16
7 Construction of RAMS.....	16
7.1 General.....	16
7.2 RAMS targets.....	17
7.2.1 Responsibilities	17
7.2.2 Principles for defining and expressing targets	18
7.3 Technical risk control	19
7.3.1 General.....	19
7.3.2 Identification and analysis of technical risks	20
7.3.3 Criticality assessment	20
7.3.4 Prioritization of the identified risks	21
7.3.5 Selection of unacceptable risks	21
7.3.6 Reduction of unacceptable risks	22
7.3.7 Management of technical risks	23
7.4 Execution logic.....	23
7.4.1 General.....	23
7.4.2 Activities during the feasibility phase.....	24
7.4.3 Activities during the definition and development phases	24
7.4.4 Activities in the production phase.....	25
7.4.5 Activities during the operating phase	25
7.4.6 Activities during the disposal phase	26
7.5 Growth of RAMS.....	26
7.5.1 General.....	26
7.5.2 Integrated RAMS growth programmes	27
7.5.3 Specific RAMS test and growth programmes	28
7.6 Documentation of the RAMS studies and digital continuity.....	29
7.6.1 Documentation of the RAMS studies.....	29
7.6.2 Digital continuity	30
8 RAMS management	31

8.1	General principles.....	31
8.2	Provisions.....	32
8.3	RAMS plan.....	32
8.4	Relations with quality assurance.....	33
8.5	Relations with system engineering.....	33
8.6	Relation with the Integrated Logistics Support (ILS) process.....	34
8.7	Relations with the human factors analysis process.....	34
8.8	Relations with cybersecurity.....	34
Annex A (informative)	Example of a RAMS plan template.....	36
Annex B (informative)	Examples of RAMS requirements in programmes.....	37
Annex C (informative)	Tasks to be performed in the various phases of a programme.....	38
Bibliography		43

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN 9227-1:2025](https://standards.iteh.ai/catalog/standards/sist/5a25a211-9eal-47cf-9cfe-c466b42b4f4a/sist-en-9227-1-2025)

<https://standards.iteh.ai/catalog/standards/sist/5a25a211-9eal-47cf-9cfe-c466b42b4f4a/sist-en-9227-1-2025>

EN 9227-1:2025 (E)**European foreword**

This document (EN 9227-1:2025) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.

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.

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

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN 9227-1:2025](https://standards.iteh.ai/catalog/standards/sist/5a25a211-9eal-47cf-9cfe-c466b42b4f4a/sist-en-9227-1-2025)

<https://standards.iteh.ai/catalog/standards/sist/5a25a211-9eal-47cf-9cfe-c466b42b4f4a/sist-en-9227-1-2025>