# SLOVENSKI STANDARD
# SIST-TP CEN/CLC/TR 17602-80-11:2021

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**Zagotavljanje kakovosti proizvodov v vesoljski tehniki - Ocenjevanje in izboljšanje programske opreme - 1. del: Okvir**

Space product assurance - Software process assessment and improvement - Part 1: Framework

Raumfahrtproduktsicherung - Software - Prozessüberprüfung und -verbesserung - Teil 1: Grundstruktur

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Assurance produit des projets spatiaux - Évaluation et amélioration des processus logiciel - Partie 1: Principes

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**Ta slovenski standard je istoveten z:** **CEN/CLC/TR 17602-80-11:2021**

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**ICS:**

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|---|---|---|
| 03.120.99 | Drugi standardi v zvezi s kakovostjo | Other standards related to quality |
| 35.080 | Programska oprema | Software |
| 49.140 | Vesoljski sistemi in operacije | Space systems and operations |

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Assurance produit des projets spatiaux - Evaluation et amélioration des processus logiciel - Partie 1: Principes

Raumfahrtproduktsicherung - Software - Prozessüberprüfung und -verbesserung - Teil 1: Grundstruktur

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# Table of contents

**European Foreword** ..... **8**

**Introduction** ..... **9**

**1 Scope** ..... **11**

**2 References** ..... **12**

**3 Terms, definitions and abbreviated terms** ..... **14**

3.1 Terms from other documents ..... 14

3.2 Terms specific to the present document ..... 14

3.3 Abbreviated terms ..... 20

**4 Organisation and purpose** ..... **22**

4.1 Organization of this handbook ..... 22

4.2 Relation to Standards ..... 22

4.2.1 Relation versus the ECSS family ..... 22

4.2.1.1 Relation to software engineering ..... 22

4.2.1.2 Relation to software product assurance ..... 22

4.2.1.3 Relation to project management ..... 23

4.2.2 Relation versus ISO/IEC ..... 24

4.3 S4S process assessment and improvement overview ..... 25

4.3.1 S4S architecture ..... 25

4.3.2 S4S assessment purposes ..... 26

4.4 Use of other schemes and standards ..... 26

**5 S4S process assessment model** ..... **27**

5.1 Introduction ..... 27

5.2 S4S process dimension ..... 28

5.3 The capability dimension ..... 32

5.3.1 General ..... 32

5.3.1.1 Capability level ..... 32

5.3.1.2 Process attributes and rating scale ..... 34

5.3.2 Level 0: Incomplete process ..... 36

5.3.3 Level 1: Performed process ..... 36

5.3.3.1 PA 1.1 Process performance attribute ..... 36

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(standards.iteh.ai)
SIST-TP CEN/CLC/TR 17602-80-11:2021
https://standards.iteh.ai/catalog/standards/sist/c4ae8d4f-005d-4640-b09f-7f1a82f84f2b/sist-tp-cen-clc-tr-17602-80-11-2021

SIST-TP CEN/CLC/TR 17602-80-11:2021



5.3.4 Level 2: Managed process ....36
5.3.4.1 PA 2.1 Performance management attribute ....36
5.3.4.2 PA 2.2 Work product management attribute ....37
5.3.5 Level 3: Established process ....37
5.3.5.1 PA 3.1 Process definition attribute ....37
5.3.5.2 PA 3.2 Process deployment attribute ....37
5.3.6 Level 4: Predictable process ....38
5.3.6.1 PA 4.1 Process measurement attribute ....38
5.3.6.2 PA 4.2 Process control attribute ....38
5.3.7 Level 5: Optimizing process ....39
5.3.7.1 PA 5.1 Process innovation attribute ....39
5.3.7.2 PA 5.2 Process optimization attribute ....39

**6 Process assessment method ....40**

6.1 Introduction ....40
6.2 Assessment process definition ....41
6.2.1 Introduction ....41
6.2.2 Assessment process ....43
6.2.2.1 Assessment initiation ....43
6.2.2.2 Assessment planning ....47
6.2.2.3 Briefing (recommended activities) ....50
6.2.2.4 Data acquisition ....50
6.2.2.5 Data validation ....52
6.2.2.6 Process rating ....53
6.2.2.7 Assessment reporting and recording ....54
6.2.2.8 Inputs to the risk management process (recommended activity) ....57
6.2.3 Assessment actors and roles ....60
6.2.3.1 Introduction ....60
6.2.3.2 Assessment sponsor (AS) ....60
6.2.3.3 Local assessment coordinator (LAC) ....61
6.2.3.4 Assessment team leader (ATL) ....61
6.2.3.5 Other assessors in the Assessment Team (AT) ....62
6.2.3.6 Technical specialists (AT) ....62
6.2.3.7 Observers ....62
6.2.3.8 Assessment participants (AP) ....62
6.2.3.9 Organizational unit (OU) ....63
6.3 Assessment process guidance ....63
6.3.1 Introduction ....63
6.3.2 Selection of assessment purpose ....63
6.3.3 Assessment guidance for capability determination ....64
6.3.3.1 Introduction ....64
6.3.3.2 Assessment purpose (INI 3) ....64
6.3.3.3 Selecting the assessment team (INI 7) ....64
6.3.3.4 Assessment scope (INI 10) ....64
6.3.3.5 Data and data validation criteria (INI 11) ....67
6.3.3.6 Defining ownership and responsibilities for assessment outputs (INI 11) ....67
6.3.3.7 Mapping the OU to the S4S model (INI 12) ....67
6.3.3.8 Selecting participants (INI 13) ....67
6.3.3.9 Assessment schedule (PLN 1) ....68
6.3.3.10 Assessment data collection (PLN 3) ....68
6.3.3.11 Verify conformance to requirements (PLN 5) ....69

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SIST-TP CEN/CLC/TR 17602-80-11:2021
https://standards.iteh.ai/catalog/standards/sist/c4ae8d4f-005d-4640-b09f-7f1e82f84f2b/sist-tp-cen-clc-tr-17602-80-11-2021

SIST-TP CEN/CLC/TR 17602-80-11:2021



6.3.3.12 Briefing (BRF 1 and BRF 2) ....69
6.3.3.13 Data collection (DAT 1) ....69
6.3.3.14 Rating of process attributes (PRT 2) ....69
6.3.3.15 Process profiles (PRT 3) ....70
6.3.3.16 Assessment instruments ....70
6.3.3.17 Act on results ....71
6.3.4 Assessment for process improvement ....71
6.3.4.1 Introduction ....71
6.3.4.2 Assessment scope (INI 10) ....71
6.3.4.3 Data acquisition (DAT 1 and DAT 2) ....71
6.3.4.4 Process rating (PRT 1) ....71
6.3.5 Assessment for ECSS conformance ....72
6.3.5.1 Introduction ....72
6.3.5.2 Planning for mandatory base practices (PLN 2) ....72
6.3.5.3 Data acquisition (DAT 1 and DAT 2) ....73
6.3.5.4 Process rating (PRT 1) ....73
6.3.5.5 Act on results ....73
6.4 Competency of assessors ....73
6.4.1 Introduction ....73
6.4.2 Gaining competency ....74
6.4.2.1 General ....74
6.4.2.2 Key relationships ....74
6.4.2.3 Levels of competency ....75
6.4.3 Maintaining competency ....75
6.4.4 Verification of competency ....75
6.4.5 Assessor competence instructions ....76
6.4.6 Assessor experience instructions ....77
**7 Process improvement ....78**
7.1 Introduction ....78
7.2 Process improvement cycle ....79
7.2.1 Introduction ....79
7.2.2 Process improvement process ....80
7.2.2.1 Examine the organization's needs and business goals Role: (TM), IPM ....80
7.2.2.2 Initiate process improvement ....81
7.2.2.3 Prepare for and conduct a process assessment Role: (see subclause 6.2) ....83
7.2.2.4 Analyse assessment output and derive action plan(s) ....84
7.2.2.5 Implement improvements Role: (SPIG) ....89
7.2.2.6 Confirm improvements Role: (IPM), IPL, SPIG, OU, *AT* ....90
7.2.2.7 Sustain improvements Role: (TM), OU ....90
7.2.2.8 Monitor performance Role: (IPM), OU ....91
7.2.2.9 Management of the process improvement project Role: (IPM), IPL ....91
7.2.3 Roles and responsibilities ....91
7.2.3.1 Top management (TM) ....91
7.2.3.2 Improvement programme manager (IPM) ....92
7.2.3.3 Improvement project leader (IPL) ....92
7.2.3.4 Software process improvement group (SPIG) members ....93
7.2.3.5 Process owners (PO) ....93
7.2.3.6 (Staff of the) Organizational unit (OU) ....93

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SIST-TP CEN/CLC/TR 17602-80-11:2021
https://standards.iteh.ai/catalog/standards/sist/c4ae8d4f-005d-4640-b09f-7f1a82f84f2b/sist-tp-cen-clc-tr-17602-80-11-2021

SIST-TP CEN/CLC/TR 17602-80-11:2021



7.2.3.7 Assessment team (AT) ..... 93
7.3 Special considerations for the success of process improvement ..... 94
7.3.1 Ensuring the ongoing commitment of management ..... 94
7.3.2 Values, attitudes and behaviour ..... 94
7.3.3 Short term benefits ..... 95
7.3.4 Collection of baseline data ..... 95
7.3.5 Information policy ..... 95
7.3.6 Select and use pilot projects ..... 95
7.3.7 Incremental implementation ..... 95
7.3.8 Training, mentoring, coaching ..... 96
7.3.9 Communication and teamwork ..... 96
7.3.10 Recognition ..... 97
7.4 Software process improvement failure factors ..... 97
7.4.1 Exclusive top-down or bottom-up improvement ..... 97
7.4.2 Unsuitable pilot project ..... 97
7.4.3 Confining to training ..... 97
7.4.4 Confining to CASE tools ..... 97
7.4.5 Confining to capability levels ..... 98
7.4.6 Too many promises ..... 98
7.4.7 Late impact ..... 98
7.5 Recognition of process improvement ..... 98
7.5.1 Introduction ..... 98
7.5.2 The process improvement cycle ..... 99
7.5.2.1 General ..... 99
7.5.2.2 Initiate process improvement ..... 99
7.5.2.3 Prepare for and conduct a process assessment ..... 99
7.5.2.4 Analyse assessment output and derive action plan(s) ..... 99
7.5.2.5 Implement improvements ..... 99
7.5.2.6 Confirm improvements ..... 100
7.5.2.7 Sustain improvements ..... 100
7.5.2.8 Review improvement programme ..... 100
7.5.2.9 Management of the process improvement project ..... 100

**8 Recognition of assessment schemes and results ..... 101**

8.1 Introduction ..... 101
8.2 Recognition of assessment schemes ..... 101
8.2.1 General ..... 101
8.2.2 Recognition of the use of S4S ..... 101
8.2.3 Recognition of other schemes ..... 101
8.2.3.2 Process assessment model scope ..... 101
8.2.3.3 Process assessment model indicators ..... 102
8.2.3.4 Mapping process assessment models to process reference models ..... 102
8.2.3.5 Recognition of assessment methods ..... 102

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SIST-TP CEN/CLC/TR 17602-80-11:2021
https://standards.iteh.ai/catalog/standards/sist/c4ae8d4f-005d-4640-b09f-7f1a82f842b/sist-tp-cen-clc-tr-17602-80-11-2021

SIST-TP CEN/CLC/TR 17602-80-11:2021



8.3 Recognition of S4S results....105

**Annex A Examples of target profiles (informative) ....106**

A.1 General....106

A.2 Rationale behind target profiles ....106

A.3 Use of target profiles in verifying the capability of software projects or supplier organisations ....109

**Annex B Recommendations for the content of SW process assessment outputs ....110**

B.1 Assessment plan ....110

B.2 Assessment report....115

B.3 Assessor record....120

**Annex C Bibliography ....122**

## Figures

Figure 1 SW life cycle processes in ECSS Standards (ECSS-E-ST-40C and ECSS-Q-ST-80C) ....24

Figure 2 Relationship between assessment indicators and process capability. ....35

Figure 3 S4S process assessment purposes....40

Figure 4 Process diagram notation....41

Figure 5 The assessment process definition....42

Figure 6 Assessment initiation....44

Figure 7 Assessment planning ....48

Figure 8 Data acquisition....51

Figure 9 Data validation ....52

Figure 10 Process rating ....53

Figure 11 Reporting ....55

Figure 12 Inputs to the risk management process....58

Figure 13 Use of target and actual profiles....58

Figure 14 Sample assessment schedule....68

Figure 15 Example of process profile ....70

Figure 16 Demonstration and validation of assessor's competency [ISO/IEC 15504]....74

Figure 17 Basic organization of a certification scheme....76

Figure 18 Process improvement cycle....78

Figure 19 Improvement cycle ....80

Figure 20 Initiate process improvement....81

Figure 21 Analyse assessment output and derive action plan(s)....84

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SIST-TP CEN/CLC/TR 17602-80-11:2021
https://standards.iteh.ai/catalog/standards/sist/c4ae8d41-005d-4640-b09f-[illegible]84f2b/sist-tp-cen-clc-tr-17602-80-11-2021

SIST-TP CEN/CLC/TR 17602-80-11:2021



Figure 22 Suggested target profile according to software criticality ..... 108

## Tables

Table 2 S4S set of processes ..... 29
Table 3 Process description components ..... 31
Table 4 Capability levels and process attributes ..... 34
Table 5 Sample target capability ..... 65
Table 6 Establishing a target profile ..... 65
Table 7 Example of assessor competence requirements ..... 76
Table 8 Typical improvement cycle time-scale ..... 83

Table A-1 : Proposed target profile ..... 106

iTeh STANDARD PREVIEW
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SIST-TP CEN/CLC/TR 17602-80-11:2021
https://standards.iteh.ai/catalog/standards/sist/c4ae8d4f-005d-4640-b09f-7f1a82f84f2b/sist-tp-cen-clc-tr-17602-80-11-2021

SIST-TP CEN/CLC/TR 17602-80-11:2021



# European Foreword

This document (CEN/CLC/TR 17602-80-11:2021) has been prepared by Technical Committee CEN/CLC/JTC 5 “Space”, the secretariat of which is held by DIN.

It is highlighted that this technical report does not contain any requirement but only collection of data or descriptions and guidelines about how to organize and perform the work in support of EN 16602-80.

This Technical report (CEN/CLC/TR 17602-80-11:2021) originates from ECSS-Q-HB-80-02 Part 1A.

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 mandate 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 TR covering the same scope but with a wider domain of applicability (e.g.: aerospace).

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# Introduction

This handbook provides a framework for the assessment and improvement of software processes for the European space industry and organizations, weather customers or suppliers.

The framework presented in this handbook is called SPiCE for Space (S4S). As its name already mentions, S4S is based on SPICE (Software Process Capability dEtermination), a major international initiative to support the development of ISO/IEC 15504. In turn, ISO/IEC 15504 provides a common internationally recognized framework for the terminology and reference process assessment description.

The process assessment and improvement standardization efforts within the SPICE project have tried to be as general as possible, to be applicable to all domains, including the space domain. The space software development processes are not substantially different from software processes in some other application domains (e.g. defence, public transport), therefore S4S uses the material provided in ISO/IEC 15504 'as is' as much as possible.

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The major benefits of using a standardized approach to process assessment and improvement are that it can:

- lead to a common understanding of the use of process assessment for process improvement and capability determination;
- facilitate capability determination in procurement;
- contribute to increase the efficiency and competitiveness of an organization
- be controlled and regularly reviewed in the light of experience of use;
- be changed and improved only by international consensus;
- encourage harmonization of existing schemes

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Nevertheless, a number of requirements were identified from the ECSS Standards which appear to be unique, or which are of particular importance for space software processes. All space requirements not adequately represented within the ISO/IEC 15504 process assessment model were addressed and incorporated into S4S.

This Handbook provides the instruments and information to determine the level of process performance and capability, to improve the software processes identifying the changes or additions that should be done, and to ensure that all ECSS requirements are met for a given project. ECSS Standards impose requirements on processes but do not constitute process descriptions themselves.

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S4S can be used by an organization to:

- understand the state of its own processes for process improvement;
- determine the suitability of its own processes for a particular requirement or class of requirements;
- determine the suitability of another organization's processes for a particular contract or class of contracts;
- improve weaknesses of organization's processes.

As such, this handbook should be of interest to quality managers, project managers, or software process improvement managers of companies and organizations currently within the space domain or who wish to enter the space domain.

S4S allows managers to focus on particular areas for process improvement.

Organisations performing their own internal assessments can choose to assess a single project, a business unit, or the entire organization, as deemed appropriate. The assessment responsible can select which processes to assess up to which capability level.

Organisations willing to improve their overall quality require using a proven, consistent and reliable method for assessing the state of their processes. They need also the means to use the results as part of a coherent improvement programme. The use of process assessment and improvement within an entire organization enables:

- a culture of constant improvement and the establishment of proper mechanisms to support and maintain that culture;
- the definition and implementation of processes to meet business goals;
- to better control resources, cost and schedule;
- to increase the quality of products and processes;
- to increase the efficiency and competitiveness of an organization.

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Customers can also benefit from the use of process assessment and improvement. Its use as means for capability determination or in a conformance assessment can:

- reduce uncertainties in selecting suppliers of software by enabling the risks associated with the supplier's capability to be identified before contract award;
- enable appropriate controls to be put in place for risk containment;
- provide a quantified basis for choice in balancing business needs, requirements and estimated project cost against the capability of competing suppliers.

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# 1 Scope

This handbook defines methods for process assessment and improvement that may be used to meet the requirements on process assessment and improvement of the ECSS-Q-ST-80C subclause 5.7. These methods constitute a clear and proven way of implementing those requirements. Alternative methods can be used provided that they meet the detailed instructions provided in this handbook for recognition of software process assessment schemes and results and process improvement.

This handbook provides a detailed method for the implementation of the requirements of the ECSS-Q-ST-80C for software process assessment and improvement. It also establishes detailed instructions for alternative methods intended to meet the same ECSS-Q-ST-80C requirements.

The process assessment and improvement scheme presented in this handbook is based on and conformant to the ISO/IEC 15504 International Standard. In designing this process assessment and improvement scheme the ISO/IEC 15504 exemplar process assessment model was adopted and extended to address ECSS specific requirements.

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The methods provided in this handbook can support organizations in meeting their business goals and in this context they can be tailored to suit their specific needs and requirements. However when used to claim compliance with relevant requirements in ECSS-Q-ST-80C only the steps and activities explicitly marked as recommended in this handbook may be omitted or modified.

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| EN 16601-10 | ECSS-M-ST-10C rev.1 | Space project management - Project planning and implementation |
| EN 16601-10-01 | ECSS-M-ST-10-01C | Space project management - Organization and conduct of reviews |
| EN 16601-40 | ECSS-M-ST-40C rev.1 | Space project management - Configuration and information management |
| EN 16601-60 | ECSS-M-ST-60C | Space project management - Cost and schedule management |
| EN 16601-80 | ECSS-M-ST-80C | Space project management - Risk management |
| EN 16602-10 | ECSS-Q-ST-10C | Space product assurance - Product assurance management |
| EN 16602-10-04 | ECSS-Q-ST-10-04C | Space product assurance - Critical-item control |
| EN 16602-10-09 | ECSS-Q-ST-10-09C | Space product assurance - Nonconformance control system |
| EN 16602-20 | ECSS-Q-ST-20C | Space product assurance - Quality assurance |
| EN 16602-20-07 | ECSS-Q-20-07A | Space product assurance - Quality assurance for test centres |
| EN 16602-30 | ECSS-Q-ST-30C | Space product assurance - Dependability |
| EN 16602-40 | ECSS-Q-ST-40C | Space product assurance - Safety |
| EN 16602-80 | ECSS-Q-ST-80C | Space product assurance - Software product assurance |
| EN 16603-10 | ECSS-E-ST-10C | Space engineering - System engineering general requirements |
| EN 16603-10-02 | ECSS-E-ST-10-02C | Space engineering - Verification |
| EN 16603-10-03 | ECSS-E-10-03A | Space engineering - Testing |
| EN 16603-40 | ECSS-E-ST-40C | Space engineering - Software |

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|---|---|---|
| | ISO/IEC 15504: 2003-2006 | Information technology – Process assessment<br>Part 1: Concepts and vocabulary (normative)<br>Part 2: Performing an assessment (normative)<br>Part 3: Guidance on performing an assessment (informative)<br>Part 4: Guidance on use for process improvement and process capability determination (informative)<br>Part 5: An exemplar process assessment model (informative) |
| | ISO/IEC 12207:2004 Amd 1/Amd2 | Information Technology – Software life cycle processe |

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