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ICS

English version

Space engineering - Verification guidelines

Ingénierie spatiale - Lignes directrices pour la
vérification

Raumfahrttechnik - Verifizierungsrichtlinien

This draft Technical Report is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/CLC/JTC 5.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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Table of contents

European Foreword	5
1 Scope	6
2 References	7
3 Terms, definitions and abbreviated terms	8
3.1 Terms from other documents	8
3.2 Terms specific to the present handbook	8
3.3 Abbreviated terms	9
4 Verification principles	12
4.1 Introduction	12
4.2 Verification versus Validation	12
4.3 Applicability to all engineering domains	12
4.4 Development	13
5 Verification guidelines	14
5.1 Verification process	14
5.2 Verification planning	14
5.2.1 Verification approach	14
5.2.2 Verification methods	18
5.2.3 Verification levels	23
5.2.4 Verification stages	24
5.2.5 Models and Models Description	27
5.2.6 Verification tools	42
5.2.7 Verification process phasing	44
5.3 Verification execution and reporting	51
5.3.1 General	51
5.3.2 Example of verification team responsibility and interfaces	51
5.4 Verification control and close-out	53
5.4.1 General	53
5.4.2 Verification control board (VCB)	54
5.4.3 Re-verification	54

6 Verification documentation	55
6.1 Introduction.....	55
6.2 Verification planning documents	57
6.2.1 Verification plan (VP)	57
6.2.2 Verification control document (VCD)	64
6.2.3 Other verification planning Documents.....	67
6.3 Verification execution and reporting documentation.....	68
6.3.1 Test report (TRPT).....	68
6.3.2 Analysis report (ARPT)	70
6.3.3 Review-of-design report (RRPT)	71
6.3.4 Inspection report (IRPT).....	73
6.3.5 Verification report (VRPT)	75
6.3.6 VRPT DRD explanation	76
6.3.7 Other verification execution and reporting Document.....	77
6.3.8 Other close-out documents	79
Annex A Verification documents delivery per review	80
Annex B Verification Standard Tailoring	81

Figures

Figure 5-1: Basic verification approach.....	16
Figure 5-2: Parameters for Model Philosophy definition.....	34
Figure 5-3: Example of Unmanned project model philosophy	36
Figure 5-4: Example of Manned project model philosophy	37
Figure 5-5: Example of Protoflight model philosophy	38
Figure 5-6: Example of Hybrid model philosophy.....	40
Figure 5-7: Example of verification process phasing with the project life cycle	45
Figure 5-8: Verification activities flow (Phases A/B).....	48
Figure 5-9: Verification activities flow (Phases C/D)	49
Figure 5-10: Verification activities flow (Phases E/F)	50
Figure 6-1: Verification documentation	56
Figure 6-2: Example of Verification Strategies per Group/level.....	59
Figure 6-3: Example of verification strategy for a single Requirement Group.....	60
Figure 6-4: Example of verification planning	61
Figure 6-5: Example of activity sheet for analysis programme	62
Figure 6-6: Example of Activity Sheet for Integration and Test Programme	63
Figure 6-7: Example of the close-out status table	66

Figure 6-8: Example of VCD sheet	67
Figure 6-9: Example of test report sheet.....	70
Figure 6-10: Example of an analysis report sheet.....	71
Figure 6-11: Example of review-of-design report sheet.....	73
Figure 6-12: Example of an inspection report sheet.....	75
Figure 6-13: Example of verification report sheet.....	77

Tables

<i>Table 5-1: Product categories according to heritage</i>	24
Table 5-2 : Summary model definitions	32
Table 5-3 : Example of a product matrix as viewed with a satellite perspective	41
 Table B-1 : Tailoring guidelines and some examples per product type	 82

European Foreword

This document (FprCEN/CLC/TR 17603-10-02:2020) has been prepared by Technical Committee CEN/CLC/JTC 5 “Space”, the secretariat of which is held by DIN.

This document is currently submitted to the Vote on TR.

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 16603-10-02.

This Technical report (FprCEN/CLC/TR 17603-10-02:2020) originates from ECSS-E-HB-10-02A.

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).

This document is currently submitted to the CEN CONSULTATION.

1

Scope

This handbook provides additional information for the application of the verification standard EN 16603-10-02 to a space system product.

This handbook does not contain requirements and therefore cannot be made applicable. In case of conflict between the standard and this handbook, the standard prevails.

This handbook is relevant for both the customer and the supplier of the product during all project phases.

To facilitate the cross-reference, this handbook follows as much as is practical, the structure of the standard and quotes the requirements, to make it self standing and easier to read (*the text from the standard is in italic*).

As the Standard applies to different products at different product levels from single equipment to the overall system (including space segment hardware and software, launchers and Transportation Systems, ground segment, Verification tools, and GSE) several examples of tailoring, to match the specificity of each application, are proposed in Annex B.

Specific discipline related verification aspects are covered in other dedicated standards and handbooks. In particular the detailed aspects for Testing are covered in the EN 16603-10-03 and in its corresponding handbook TR 17603-10-03.

The application of the requirements of the standard to a particular project is intended to result in effective product verification and consequently to a high confidence in achieving successful product operations for the intended use, in this respect this handbook has the goal to help reaching these objectives.