



**NSAI**  
Standards

Irish Standard  
I.S. EN 16601-40:2014

# Space project management - Teil 40: Configuration and information management

**I.S. EN 16601-40:2014**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

*This document is based on:*

EN 16601-40:2014

*Published:*

2014-08-20

*This document was published under the authority of the NSAI and comes into effect on:*

2014-09-06

ICS number:

49.140

NOTE: If blank see CEN/CENELEC cover page

NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

**EN 16601-40**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

ICS 49.140

Supersedes EN 13290-5:2001, EN 13290-6:2001

English version

## Space project management - Teil 40: Configuration and information management

Management des projets spatiaux - Partie 40: Gestion de la configuration et de l'informations

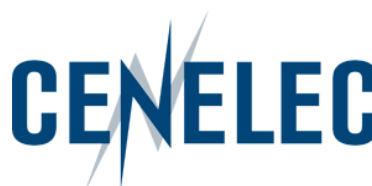
Raumfahrt-Projektmanagement - Teil 40: Konfigurations- und Informationsmanagement

This European Standard was approved by CEN on 14 December 2013.

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

CEN and CENELEC members are the national standards bodies and national electrotechnical committees of 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

## Table of contents

---

<b>Foreword</b> .....	<b>5</b>
<b>Introduction</b> .....	<b>6</b>
<b>1 Scope</b> .....	<b>7</b>
<b>2 Normative references</b> .....	<b>8</b>
<b>3 Terms, definitions and abbreviated terms</b> .....	<b>9</b>
3.1 Terms from other standards.....	9
3.2 Terms specific to the present standard .....	9
3.3 Abbreviated terms.....	11
<b>4 Configuration management principles</b> .....	<b>13</b>
4.1 Overview .....	13
4.1.1 Configuration and information/documentation activities.....	13
4.1.2 Configuration management process and objectives .....	13
4.1.3 Information/documentation management process and objectives .....	14
4.2 Management and planning .....	15
4.2.1 Configuration management plan .....	15
4.2.2 Configuration management interfaces.....	15
4.3 Implementation of configuration management .....	17
4.3.1 Overview.....	17
4.3.2 Configuration identification .....	19
4.3.3 Configuration control .....	23
4.3.4 Configuration status accounting .....	25
4.3.5 Configuration verification.....	26
4.3.6 Configuration management process audit.....	26
4.3.7 Configuration management approach for operational phase .....	26
4.3.8 Implementation of information/documentation management .....	27
<b>5 Configuration management requirements</b> .....	<b>32</b>
5.1 General.....	32
5.2 Management and planning .....	32
5.2.1 Configuration management plan .....	32

5.2.2	Configuration management interfaces.....	33
5.3	Implementation of configuration management .....	33
5.3.1	Configuration identification .....	33
5.3.2	Configuration control .....	38
5.3.3	Configuration status accounting .....	40
5.3.4	Configuration verification.....	41
5.3.5	Audit of the configuration management system.....	42
5.3.6	Configuration management approach for operational phase .....	42
5.3.7	Implementation of information/documentation management .....	43
<b>Annex A (normative) Configuration management plan - DRD .....</b>		<b>48</b>
<b>Annex B (normative) Configuration item list - DRD.....</b>		<b>55</b>
<b>Annex C (normative) Configuration item data list (CIDL) - DRD.....</b>		<b>57</b>
<b>Annex D (normative) As-built configuration list - DRD .....</b>		<b>59</b>
<b>Annex E (normative) Software configuration file (SCF) - DRD .....</b>		<b>61</b>
<b>Annex F (normative) Configuration status accounting reports -DRD.....</b>		<b>64</b>
<b>Annex G (normative) Change request - DRD .....</b>		<b>67</b>
<b>Annex H (normative) Change proposal - DRD .....</b>		<b>69</b>
<b>Annex I (normative) Request for deviation - DRD.....</b>		<b>71</b>
<b>Annex J (normative) Request for waiver - DRD .....</b>		<b>73</b>
<b>Annex K (informative) Configuration item selection .....</b>		<b>75</b>
<b>Annex L (informative) Technical data package description .....</b>		<b>77</b>
<b>Annex M (informative) Digital signature .....</b>		<b>99</b>
<b>Bibliography.....</b>		<b>102</b>
<b>Figures</b>		
	Figure 4-1 Configuration management .....	14
	Figure 4-2 Configuration management interface (inputs).....	16
	Figure 4-3 Configuration management interface (outputs).....	17
	Figure 4-4 Implementation of configuration management.....	19
	Figure 4-5 Configuration identification .....	20
	Figure 4-6 CI product tree structure.....	21
	Figure 4-7 Configuration control .....	24

**EN 16601-40:2014 (E)**

Figure 4-8 Implementation of information/documentation management.....	27
Figure 4-9 TDP contents .....	29
Figure 4-10 Delivery process for TDP.....	30
Figure 4-11 Project phases and baseline definitions.....	31
Figure L-1 TDP ZIP file.....	78
Figure L-2 : ZIP archive .....	79
Figure L-3 : XML schema tree .....	79
Figure M-1 Digital signature .....	100

**Tables**

Table G-1 : Change request scope and content .....	68
Table H-1 : Change proposal scope and content.....	70
Table I-1 : Request for deviation scope and content.....	72
Table J-1 : Request for waiver scope and content.....	74
Table L-1 : data_package.....	81
Table L-2 : data_definition_exchange.....	81
Table L-3 : item_properties.....	86
Table L-4 : element .....	87
Table L-5 : database .....	97
Table L-6 : Additional information on Table L-1 to Table L-5 .....	98

## **Foreword**

---

This document (EN 16601-40:2014) has been prepared by Technical Committee CEN/CLC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16601-40:2014) originates from ECSS-M-ST-40C Rev. 1.

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 2015, and conflicting national standards shall be withdrawn at the latest by February 2015.

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 supersedes EN 13290-5:2001 and 13290-6:2001.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

---

This document defines the configuration management and information/documentation requirements for space projects.

The document is structured into two main parts, the first part presenting the processes and the second one providing the detailed requirements.

In addition, the expected configuration and information/documentation management documentation is specified in the annexed document requirements definitions (DRDs).



# 1 Scope

---

The scope of this standard is to describe the processes and provide the requirements for managing the information/documentation and configuration of products within a space programme or project.

The requirements specified herein apply to, and affect the supplier and customer at all levels.

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

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-