



NSAI
Standards

Irish Standard
I.S. EN 9300-005:2017

Aerospace series - LOTAR - LOng Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data - Part 005: Authentication and Verification

I.S. EN 9300-005:2017

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 9300-005:2017

Published:

2017-10-04

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

2017-10-23

ICS number:

01.110

35.240.30

35.240.60

49.020

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

National Foreword

I.S. EN 9300-005:2017 is the adopted Irish version of the European Document EN 9300-005:2017, Aerospace series - LOTAR - Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data - Part 005: Authentication and Verification

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 9300-005

October 2017

ICS 01.110; 35.240.30; 35.240.60; 49.020

English Version

**Aerospace series - LOTAR - LOng Term Archiving and
Retrieval of digital technical product documentation such
as 3D, CAD and PDM data - Part 005: Authentication and
Verification**

Série aérospatiale - LOTAR - Archivage long terme et
récupération des données techniques produits
numériques telles que CAD 3D et PDM - Partie 005 :
Authentification et Vérification

Luft- und Raumfahrt - LOTAR - Langzeit-Archivierung
und -Bereitstellung digitaler technischer
Produktdokumentationen, wie zum Beispiel von 3D-,
CAD- und PDM-Daten - Teil 005: Authentifizierung und
Verifizierung

This European Standard was approved by CEN on 16 July 2017.

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, 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 United Kingdom.



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

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

Contents	Page
European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms, definitions and abbreviations	4
4 Applicability	6
5 Authentication.....	6
6 Qualification methods	9
7 Electronic signature	12
Annex A (informative) Use cases and recommended solutions for issues of authentication and verification.....	16

Figures

Figure 1 — Check and renew signature document.....	8
Figure 2 — Concept of repair in data preparation / ingest process and retrieval process	12
Figure 3 — Creation and check of electronic signatures.....	14
Figure 4 — Validity of electronic signatures	14
Figure 5 — Verification period of electronic signatures.....	15

European foreword

This document (EN 9300-005:2017) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

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

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 April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

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 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.

EN 9300-005:2017 (E)

1 Scope

EN 9300-005 describes the fundamentals and concepts of authentication and verification of the integrity of digital documents and their content during the archiving and retrieval processes. The Data Domain Parts EN 9300-x00 will specify qualification measures for the content of the document. The fundamentals given in this document cover the requirements, methods and recommendations for their implementation within an archiving system.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 9300 (all parts), *Aerospace series — LOTAR — LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data*

3 Terms, definitions and abbreviations

For the purposes of this standard, the terms, definitions and abbreviations given in EN 9300-003 and EN 9300-007 shall apply.

3.1

authentication

authentication has to prove:

- the *originality* and *integrity* of a document and its contents;
- the identity of a user.

Authentication of an electronic document establishes that the content is unchanged from to the original information. Information is *original* if it is demonstrable that the information belongs to the supposed author.

Authentication may depend upon one or more authentication factors.

Unlike verification and validation, authentication makes no statement about the quality of data in terms of usability in the archiving process chain of e.g. conversion or reuse.

3.2

asymmetric keys

asymmetric keys are pairs of keys, created in one step; they can be used in both directions. Encryption with the public key can only be decrypted with the private key; if the encryption is done with the private key, the decryption can only be done with the public key; such a key pair can be used for encryption and for signing

3.2.1

public key

public key is the part of the asymmetric key pair that is known to everyone

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
-