SLOVENSKI STANDARD
SIST EN 9300-012:2014

01-februar-2014

Aeronavtika - LOTAR - Dolgotrajno arhiviranje in iskanje digitalne tehnične dokumentacije o izdelkih, kot so podatki o 3D, CAD in PDM - 012. del: Opis referenčnega procesa "Vsesanje"

Aerospace series - LOTAR Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data - Part 012: Reference process description "Ingest"

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Luft- und Raumfahrt - LOTAR - Langzeit-Archivierung und -Bereitstellung digitaler technischer Produktdokumentationen, wie zum Beispiel von 3D-, CAD- und PDM-Daten - Teil 012: Beschreibung des Referenzprozesses "Aufnahme"

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Série aérospatiale - LOTAR - Archivage Long Terme et récupération des données techniques produits numériques, telles que CAD, 3D et PDM - Partie 012: Description du processus de référence "Soumission"

Ta slovenski standard je istoveten z: EN 9300-012:2013

ICS:

35.240.30	Uporabniške rešitve IT v informatiki, dokumentiranju in založništvu	IT applications in information, documentation and publishing
49.020	Letala in vesoljska vozila na splošno	Aircraft and space vehicles in general

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2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 9300-012

January 2013

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 012: Reference process description "Ingest"

Série aérospatiale - LOTAR - Archivage Long Terme et récupération des données techniques produits numériques, telles que CAD, 3D et PDM - Partie 012: Description du processus de référence "Soumission"

Luft- und Raumfahrt - LOTAR - Langzeitarchivierung und Bereitstellung digitaler technischer Produktdokumentationen, beispielsweise 3D, CAD und PDM Daten - Teil 012: Referenzprozessbescheibung "Aufnahme"

This European Standard was approved by CEN on 24 November 2012.

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 9300-012:2013) 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 July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.

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.

According to the CEN/CENELEC Internal Regulations, the national standards organisations 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.

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Introduction

This European Standard was prepared jointly by ASD-STAN and the PROSTEP iViP Association.

The PROSTEP iViP Association is an international non-profit association in Europe. For establishing leadership in IT-based engineering it offers a moderated platform to its nearly 200 members from leading industries, system vendors and research institutions. Its product and process data standardization activities at European and worldwide levels are well known and accepted. The PROSTEP iViP Association sees this European Standard and the related parts as a milestone of product data technology.

Users should note that all European Standards undergo revision from time to time and that any reference made herein to any other standard implies its latest edition, unless otherwise stated.

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1 Scope

This European Standard provides a detailed description for the recommended process of transferring data to the archive as overviewed in EN 9300-010. This transfer includes the conversion of the Content Information into the archiving format STEP and the generation of the Archive Information Package. Furthermore, the main focus for the process description is on the validation and verification of the converted Content Information.

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 9300-003, *Aerospace series — LOTAR — Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data — Part 003: Fundamentals and concepts*

EN 9300-007, *Aerospace series — LOTAR — Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data — Part 007: Terms and References* [1)]

EN 9300-010, *Aerospace series — LOTAR — Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data — Part 010: Overview Data Flow* [1)]

ISO 14721:2003, *Space data and information transfer systems — Open archival information system — Reference model [OAIS]*

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3 Terms, definitions and abbreviations

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

4 Applicability

EN 9300-012 is applicable to new 3-D product data records and may be applicable to existing 3D product data records, on current and earlier products, produced using previous regulations, standards and procedures. The current version is focused on product data as defined in the domain specific parts.

1) Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).

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5 Ingest

See Figure 1.

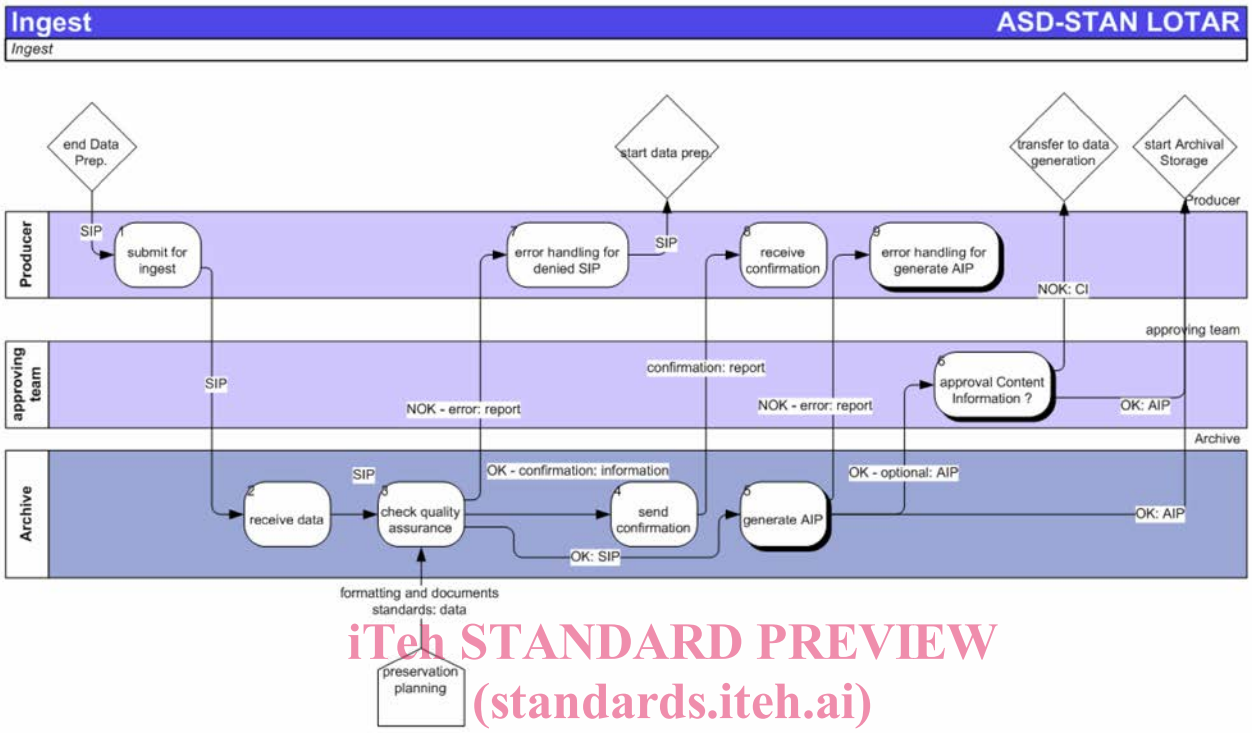

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Figure 1 — Overview of Ingest process

During the Ingest process, the data producer submits the Submission Information Package (SIP) from the working environment into the archiving environment. The archive receives the data packages and checks if the SIP contains data of the recommended format and generates the Archiving Information Package (AIP) afterwards. After submitting the SIP to the archive, the source data receives the status read only.

Input data:

— SIP.

Output data:

— AIP;

— Content Information (CI);

— SIP.

6 Detailed process steps description

6.1 General

Input and output data described in this standard represent the minimal requirements for the fulfilment of the process steps. Additional data may be added, but shall match at a minimum the requirements for the information package (see EN 9300-003, Section 5.3.2.1 “Definition of the core model”).

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6.2 Submit for Ingest

The producer initiates the submission of the SIP from his personal working environment to the archive. With the initiation of the submission the producer applies the approval for that SIP. A further change of the content data should not be possible otherwise the changed data shall be archived by a new approval and data preparation process.

Input data:

— SIP.

Output data:

— SIP.

6.3 Receive data

The archive receives the SIP for archiving from the producing system through data transfer. The SIP shall be kept within the archives working environment for further processing during the ingest process.

Input data:

— SIP.

Output data:

— SIP.

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6.4 Check quality assurance

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A function within the Archive environment checks the quality of the ingested data. This includes the successful transfer of the SIP to the staging area. For digital submissions, these mechanisms may include Cyclic Redundancy Checks (CRCs), or checksums associated with each data file, or the use of system log files to record and identify any file transfer, or checking for media read/write errors. In addition to OAIS recommendations, the function checks the types of data formats used and the existence of PDI within the received SIP. The exchanged data and its representations shall be stipulated in the ingest agreement between the archive and the producer. Stipulations may cover aspects such as CAD data formats and Model files or PDM data formats such as STEP. The agreement shall include, at a minimum, the specification of:

— the key characteristics of the product information to preserve;

— the Descriptive Information of the SIP;

— the acceptance criteria used for the verification;

— the validation properties of the source information to archive;

— the related KPI’s.

Each agreement will be archived itself, as part of the context information of the new category of product information to archive.

Input data:

— SIP;

— Data formatting and document standards.