Aeronavtika - LOTAR - Dolgotrajno arhiviranje in iskanje digitalne tehnične dokumentacije o izdelkih, kot so podatki o 3D, CAD in PDM - 011. del: Opis referenčnega procesa "Priprava podatkov"

Aerospace series - LOTAR Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data - Part 011: Reference process description "Data preparation"

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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 011: Beschreibung des Referenzprozesses "Datenvorbereitung"

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Ta slovenski standard je istoveten z: **EN 9300-011:2013**

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

SIST EN 9300-011:2014 **en**

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EUROPEAN STANDARD

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EN 9300-011:2013 (E)

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Foreword

This document (EN 9300-011:2013) 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of an identical text or by endorsement, at the latest by July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.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.

1   Scope

This European Standard provides a detailed description for the recommended data preparation process for archiving of 3D and PDM data, as overviewed in EN 9300-010.

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]*

3   Terms, definitions and abbreviations

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

4   Applicability

EN 9300-011 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.

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

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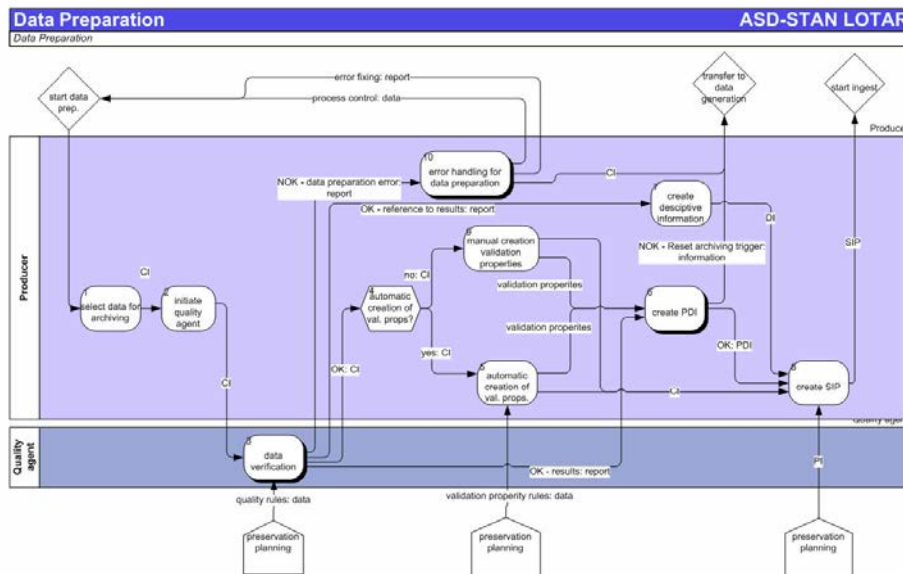
5 Data preparation

See Figure 1.

Figure 1 — Data preparation process

The data to be archived will be prepared by the producer. This includes a defined data verification, performed by a Quality Agent tool. The data verification will test the data against defined data quality requirements, and will provide a result report. Data preparation also includes the creation of Validation properties. The sub process shall be certified.

Output data:

— Submission Information Package (SIP),

— reset archiving trigger information,

— process control data,

— error fixing report.

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").

6.2 Select data for archiving

The producer selects data for archiving during, for example, a domain depended release process (this is outside the scope of EN 9300). As an example, the selection can be performed at a product structure viewer of a CAD/PDM system. The process step represents the initial trigger for the archiving process.

The selected e.g. CAD or PDM information defines the Content Information (CI) of the future SIP.

Input data:

— CI;

— error report for producer of process step number 10: `error handling for data preparation´;

— process control data.

Output data:

— CI.

6.3   Initiate quality agent

The producer will trigger the process manually. The system tool "quality agent" automatically creates Validation properties from the data and checks if the data meets with the recommended data quality criteria.

It is recommended that the process step is synchronised with the producer's own release process.

Input data:

— CI.

Output data:

— CI.

6.4   Data verification

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Whereas the purpose of validation is to ensure that the right information has been captured, the intention of verification is to ensure that the data is correctly represented. Verification rules shall ensure that a data representation meet the quality requirements within defined tolerances. Verification is successful if no verification rule is violated. The verification rules are domain specific and are defined within EN 9300 (for example, verification rules for CAD are described in the 100 series parts of EN 9300). Only verification rules belonging to the core models are part of EN 9300.

The down stream processes and the data outputs are determined by the result of the "data verification".

Input data:

— CI;

— data quality rules.

Output data:

— If data verification is successful:

— CI;

— reference to Results report (the integration of this information into the Descriptive Information is optional);

— Results report.

— If data verification fails:

— data preparation error report.

6.5   Automatic creation of Validation properties?

The producer has to decide if a manual or automatic creation of Validation properties is possible.

Input data:

— CI.