

The certification body of TÜV Informationstechnik GmbH hereby awards this certificate to the company

AIRBUS S.A.S.
1 Rond Point Maurice Bellonte
31707 Blagnac, France

to confirm that its document management- and archiving solution

ZAMIZ LTA3D

fulfils all applicable audit criteria for document management solutions

prEN 9300 series*1) &
AC-DMS, 4th edition 2014

*1) Applied levels: Verification Level 0 & Validation Level 1

The requirements are summarized in the appendix to the certificate.

The appendix is part of the certificate and consists of 11 pages.

The certificate is valid only in conjunction with the evaluation report.



Certificate ID: 9958.17

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Certificate valid until
2019-12-31

Essen, 2018-01-12

Dr. Anja Wiedemann
Deputy Head of Certification Body

TÜV Informationstechnik GmbH
TÜV NORD GROUP
Langemarckstr. 20
45141 Essen, Germany
www.tuvit.de



AC-DMS
is a criteria catalog of VOI
www.voi.de

Certificate

Certification Scheme

The certification body of TÜV Informationstechnik GmbH performs its certification on the basis of the following certification scheme:

- German document: "Zertifizierungsprogramm (nicht akkreditierter Bereich) der Zertifizierungsstelle der TÜV Informationstechnik GmbH", version 1.0 as of 2015-08-24, TÜV Informationstechnik GmbH

Evaluation Report

- "Evaluation Report Document Management Solution (DMS) – Document Management System, ZAMIZ LTA3D", version 1.0 as of 2017-12-15, TÜV Informationstechnik GmbH

Evaluation Requirements

- "AC-DMS – Audit Criteria for Electronic Document Management and Document Process Solutions", 4th edition 2014, Verband Organisations- und Informationssysteme e. V. (VOI), (corresponds to the German issue PK-DML, 4th edition 2014)
- prEN 9300-002 – Aerospace series LOTAR LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 002: Requirements, 01 May 2012, ASD-STAN
- prEN 9300-100 – Aerospace series LOTAR, LOnG Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 100: Common concepts for Long term archiving and retrieval of CAD 3D mechanical information, 01 May 2012, ASD-STAN
- prEN 9300-110 – Aerospace series LOTAR, LOnG Term Archiving and Retrieval of digital technical product

documentation such as 3D, CAD and PDM data – Part 110:
CAD mechanical 3D Explicit geometry information, 01 May
2012, ASD-STAN

- prEN 9300-115 - Aeospace series LOTAR, LOng Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 115: Explicit CAD assembly structure, 01 May 2012, ASD-STAN
- prEN 9300-120 - Aeospace series LOTAR, LOng Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 120: CAD 3D Explicit Geometry with Product and Manufacturing Information, (currently in release process), ASD-STAN

The Evaluation Requirements are summarized at the end. Not applicable requirements are printed in grey.

Evaluation Target

Evaluation Target is the document management- and archiving solution ZAMIZ LTA3D based on

Documentation:

- Procedural Documentation – ZAMIZ/LTA3D, version 1.6 as of 2017-08-11, T-Systems International GmbH
- Procedural Documentation ZAMIZ General Part, version 4.1 as of 2017-09-15, Airbus Operations GmbH
- Basic Module for the Procedure Documentations ZAMIZ Archiving using ImageMaster, version 7.0 as of 2017-09-15, Airbus Operations GmbH

Systems in Operation:

- ZAMIZ-IMA, ImageMaster

Evaluation Result

- All applicable AC-DMS and prEN 9300-002, -100, -110, 115 and -120 evaluation requirements for verification level 0 & validation level 1 are fulfilled.
- The recommendations of the evaluation report have to be regarded.

Summary of the Evaluation Requirement

1. General description of area of use

- 1.1. Description of the organisation
- 1.2. Locations
- 1.3. Organisation structure

2. Task-related and inherently logical system solution

- 2.1. Framework, tasks and guidelines
- 2.2. Description of the organisation
- 2.3. Document inventories
- 2.4. Digitization and taking over of paper documents
- 2.5. Destruction of paper and other original documents
- 2.6. Takeover of documents received in electronic form
- 2.7. Handling of documents with electronic signatures
- 2.8. Handling of emails
- 2.9. Takeover procedure for mass digital data
- 2.10. Indexing
- 2.11. Archiving
- 2.12. Search and access
- 2.13. Check-in / Check-out
- 2.14. Processing and assigning versions
- 2.15. Onward transfer
- 2.16. Reproduction
- 2.17. Deletion

3. Technical system solution

- 3.1. Graphic representation of system

- 3.2. Storage systems
- 3.3. Recording systems
- 3.4. Output systems
- 3.5. Virtualisation
- 3.6. Server hardware
- 3.7. Client hardware
- 3.8. Server software
- 3.9. Client software
- 3.10. Special case: individual software
- 3.11. Interfaces
- 3.12. Network system description
- 3.13. Components for generation and processing of electronic signatures

- 4. IT Security**
- 4.1. General IT security concept
- 4.2. Specific requirements for the IT security concept
- 4.3. Backup concept
- 4.4. IT security / user administration and authorisation concept
- 4.5. Entry controls
- 4.6. Access and data access controls
- 4.7. Transaction, integrity and consistency security
- 4.8. Recording (protocols)
- 4.9. Security against failure
- 4.10. Data protection and control measures

- 5. Technical operation**
- 5.1. Responsibilities
- 5.2. Prerequisites with respect to buildings
- 5.3. Operating conditions for hardware
- 5.4. Operating conditions for software
- 5.5. Data security
- 5.6. Handling of data carriers
- 5.7. Monitoring of orderly operation
- 5.8. Responsibility for maintenance and rectification of faults and disturbances

- 5.9. Preventive maintenance
- 5.10. Documentation of the maintenance processes
- 5.11. Rectification of faults and disturbances
- 5.12. Restart
- 5.13. Recovery
- 5.14. Updating of the hardware
- 5.15. Updating of the software
- 6. Long-term availability and migration**
 - 6.1. Concept for long-term availability
 - 6.2. Migration concept
 - 6.3. Control
 - 6.4. Performance of migration
- 7. Employee qualification**
 - 7.1. Roles
 - 7.2. Necessary knowledge
 - 7.3. Responsibilities
 - 7.4. Qualification measures
 - 7.5. Documentation of the qualifications and measures
- 8. Tests**
 - 8.1. Test concept
 - 8.2. Test plans and test rules and regulations
 - 8.3. Test protocols
- 9. Outsourcing**
 - 9.1. Performance and responsibility
 - 9.2. Process documentation
 - 9.3. Interfaces
 - 9.4. Control
- 10. Internal Control System (ICS)**
 - 10.1. Description of the ICS methods
 - 10.2. Traceability of controls
 - 10.3. Documentation of the organisational control measures
 - 10.4. Documentation of the technical control measures

- 10.5. Process documentation
- 10.6. Control and evaluation of the ICS
- 10.7. Assignment of responsibilities

prEN 9300-002: Requirements

1 General Requirements

- 1.1 System preparation
- 1.2 Identification of preservation use cases
- 1.3 Categorization of digital product data to archive
- 1.4 Specification of the descriptive information of the SIP (Submission Information Package)
- 1.5 Description of the quality control criteria
- 1.6 Description of the derivation procedures for the SIP

2 Data Preparation

- 2.1 Preparation of the descriptive information associated to each source product information
- 2.2 Preparation of the verification information for each SIP
- 2.3 Preparation of the validation information associated to each source product information

3 Ingest

- 3.1 Approval prior to release
- 3.2 Error detection methods
- 3.3 Translation audit
- 3.4 Content modifications and updates
- 3.5 Proprietary rights

4 Archive Storage

- 4.1 Notification of storage requests
- 4.2 Operational statistics
- 4.3 Archive maintenance
- 4.4 Error checking
- 4.5 Auditing requirements
- 4.6 Auditing for data integrity errors
- 4.7 Representative sampling

- 4.8 Corrective action plans
- 4.9 Audit reporting
- 4.10 Documented testing procedures
- 4.11 Disaster recovery
- 4.12 Media context discrepancies

5 Data Management

- 5.1 Data security
- 5.2 Authentication
- 5.3 Privilege
- 5.4 Traceability
- 5.5 Activity Log
- 5.6 Repository security structure
- 5.7 Failsafe procedures
- 5.8 Access and distribution restrictions
- 5.9 Data content
- 5.10 File formats / application association
- 5.11 Multiple file formats of same design
- 5.12 Variety of types of data objects
- 5.13 Unique persistent identifier or identification scheme
- 5.14 Relationships between data objects
- 5.15 Capture derivative relationships between part designs
- 5.16 Capture standards metadata
- 5.17 Unambiguous product definition
- 5.18 Extensibility
- 5.19 Links with documents of existing archive systems
- 5.20 Associated non-product data
- 5.21 Data integrity
- 5.22 Description of key performance indicators
- 5.23 Stored media error detection
- 5.24 Media refresh
- 5.25 Design intent integrity
- 5.26 Storage and retrieval integrity
- 5.27 Integrity of the data over the entire product / data life cycle

5.28 Migration or conversion of data representations

5.29 Multi-level architecture

5.30 Audit trail

5.31 Provenance

5.32 Usability after translation

5.33 Description of format and representation

5.34 Core attributes

5.35 Management of descriptive information

6 Administration

6.1 Negotiation of agreements between the producer and the archive

6.2 Configuration management system

6.3 Regulatory and contractual requirements

6.4 Coordination with regulatory agencies

6.5 Contractual requirements

7 Preservation Planning

7.1 Risk management

7.2 Data recovery contingency plan

7.3 Data preservation with external producers

7.4 Inherited product data

7.5 Plan for technology evolution

7.6 Usability planning

7.7 Periodic assessment

7.8 Technology replacement

7.9 Access service presentation

7.10 Minimum access requirements

7.11 Incorporate recommendations

8 Access

8.1 Data retrieval and navigation

8.2 Data retrieval

8.3 Retrieval and navigation maintenance

8.4 Interrogation

8.5 Translation accuracy

- 8.6 Verification
- 8.7 Validation properties
- 8.8 Error detection
- 8.9 Usability issues
- 8.10 Proprietary rights identification

prEN 9300-100: CAD 3D Mechanical

- 1.1 Long term archiving and retrieval of CAD as part of the company risk management 1
- 1.2 Long term archiving and retrieval of CAD as part of the company risk management 2
- 1.3 CAD reference model for long term archiving of design intent
- 1.4 Qualification methods for long term preservation of archived CAD information
- 1.5 Specific qualification processes for long term archiving of CAD models and associated tolerance thresholds
- 1.6 Categorization of CAD archived files according to a risk management analysis 1
- 1.7 Categorization of CAD archived files according to a risk management analysis 2
- 1.8 Categorization of CAD archived files according to a risk management analysis 3
- 1.9 Repair in case of identification of errors after retrieval 1
- 1.10 Repair in case of identification of errors after retrieval 2
- 1.11 Preservation planning of archived CAD information
- 1.12 Evolution of ISO standards of the related relevant recommended practices
- 1.13 Administration and monitoring
- 1.14 Preservation description information 1
- 1.15 Preservation description information 2
- 1.16 Preservation description information 3
- 1.17 Preservation description information 4
- 1.18 Preservation description information 5
- 1.19 Preservation description information 6

prEN 9300-110: Explicit Geometry Information

- 1.1 Definition of core model for an explicit geometry

- 1.2 Verification rules of explicit geometry
- 1.3 Level of verification 1
- 1.4 Level of verification 2
- 1.5 Verification rules
- 1.6 Evaluation of the values of thresholds 1
- 1.7 Evaluation of the values of thresholds 2
- 1.8 Evaluation of the values of thresholds 3
- 1.9 Results of the verification 1
- 1.10 Results of the verification 2
- 1.11 Verification reports
- 1.12 Level of validation 1
- 1.13 Level of validation 2
- 1.14 Comparison of the geometrical validation properties 1, 2, 3
- 1.15 Comparison of the geometrical validation properties 1, 2, 3
- 1.16 Comparison of the geometrical validation properties 1, 2, 3
- 1.17 Results of the validation 1
- 1.18 Results of the validation 2
- 1.19 Results of the validation 3

prEN 9300-115: Explicit CAD Assembly Structure

- 1.1 Verification rules of CAD explicit assembly structure
- 1.2 Validation rules of CAD explicit assembly structure
- 1.3 Identification of the validation level in AIP
- 1.4 Identification of the validation level in DIP

prEN 9300-120: CAD 3D Explicit Geometry with Product and Manufacturing Information

- 1.1 Saved views 1
- 1.2 Saved views 2
- 1.3 Saved views 3
- 1.4 Definition of core model for PMI
- 1.5 Verification rules for PMI
- 1.6 Validation rules GD&T and annotation
- 1.7 Levels of validation 1
- 1.8 Levels of validation 2

- 1.9 Comparison of the PMI validation properties (PMIVP) 1
- 1.10 Comparison of the PMI validation properties (PMIVP) 2
- 1.11 Results of the validation at the ingest process (qualify)
- 1.12 Results of the validation at the retrieval process
(comparison)
- 1.13 Validation reports