

La certification CoreTrustSeal

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Le Printemps
de la Donnée



What is CoreTrustSeal?

CoreTrustSeal is an international, community based, non-governmental, and non-profit organization promoting sustainable and trustworthy data infrastructures.

The CoreTrustSeal provides a **benchmark** for those seeking assurance either for their repository or for the data they produce, own or use, to ensure the data will be actively preserved as digital assets for the long term.

How? CoreTrustSeal offers to any interested data repository a core level certification based on the [Core Trustworthy Data Repositories Requirements](#). This universal catalogue of requirements reflects the core characteristics of trustworthy data repositories.

L'Hours, H., Kleemola, M., & de Leeuw, L. (2019). CoreTrustSeal: From academic collaboration to sustainable services. *IASSIST Quarterly*, 43(1), 1–17. <https://doi.org/10.29173/iq936>



<https://www.coretrustseal.org>

Why?

- To **develop trust** in repositories and their datasets
- Funding authorities increasingly require continued access to data produced by the projects they fund, and have made this an important element in Data Management Plans.
- Some funders now stipulate that the data they fund must be deposited in a trustworthy repository
- To develop sustainable repositories (long-term funding, (meta)data curation, long-term data storage)

But

- Not having the certification doesn't mean a repository is not trustworthy
- A repository can be very used by a scientific community

The situation in 2015

4 standards disponibles



DIN 31644



WORLD DATA SYSTEM



ISO 16363

From WDS + DSA to CTS

Since 2013, discussions took place in the WDS/RDA Certification of digital repositories Interest Group

In 2016, the Repository Audit and Certification WDS/DSA partnership Working Group released a recommendation about auditing the digital repositories which led to the **creation in 2017 of CoreTrustSeal**



The european model of certification



Centres de données de confiance - Trustworthy Data Repositories

Crédit Mustapha Mokrane

The OAIS model

- Based on the OAIS model – Open Archive Information System

<https://public.ccsds.org/Pubs/650x0m2.pdf>

(Version 2, 2012)

- Draft Octobre 2020

- In french :

<https://www.cines.fr/archivage/un-concept-des-problematiques/le-modele-de-reference-loais/>

Françoise Genova, Aude Chambodut, Olivier Rouchon, Gilles Ohanessian. La certification des entrepôts de données. *Printemps de la Donnée 2024*, INRAE; Université Haute-Alsace; Université de Strasbourg; INSA; PNDB; AgroParisTech; Université de Lille; Sorbonne Université; Data Terra, Mar 2024, Strasbourg, France. hal-04680311

Recommendation for Space Data System Practices

**REFERENCE MODEL FOR AN
OPEN ARCHIVAL
INFORMATION SYSTEM (OAIS)**

RECOMMENDED PRACTICE

CCSDS 650.0-M-2

MAGENTA BOOK
June 2012

The reviewing process

- Submission of an online form
- Review by two reviewers
- Review of the assessments by the Board :
 - Return of the reviewers' assessments and the Board's comments to the candidates
 - Acceptance of the application
- The contents of the file are public (except where there are legitimate grounds for confidentiality)
- Reviewers are members of the CoreTrustSeal community 'Reviewers' Assembly'
- Certification renewal every 3 years

 Administrative fee : 3000 euros

16 requirements grouped in 3 topics

Requirements

Background Information & Context (R.0)

Organisational Infrastructure

Mission & Scope (R01)

Rights Management (R02)

Continuity of Service (R03)

Legal & Ethical (R04)

Governance & Resources (R05)

Expertise & Guidance (R06)

Digital Object Management

Provenance and authenticity (R07)

Deposit, Appraisal & Accessibility (R08)

Preservation plan (R09)

Quality Assurance (R10)

Workflows (R11)

Discovery and Identification (R12)

Reuse (R13)

Information Technology & Security

Storage & Integrity (R14)

Technical Infrastructure (R15)

Security (R16)

3 sections + context



**CoreTrustSeal Trustworthy Digital Repositories
Requirements 2026-2028**

V01.00

<https://doi.org/10.5281/zenodo.17660463>

Compliance Levels

- In Progress: the repository is in the implementation phase.
- Implemented: the requirement has been fully implemented by the repository.



Entrepôts français actuellement certifiés CTS

- IDOC/IDOC-DATA, Orsay
- IFREMER SISMER, Plouzané
- ORTOLANG, Nancy
- ESRF, Grenoble
- CDSP, Paris
- IPSL, Paris
- CDS, Strasbourg



Take away

- A **significant investment in time** by the teams (governance, IT and documentation) to self-assess their repository
- Completing a self-assessment is very useful even if a repository does not wish to apply for core certification since it **enables an appraisal of the repository's internal procedures**, which can be examined with respect to relevant criteria and updated where necessary.
- Funders have made this an important element in Data Management Plans.
- Some funders now stipulate that the data they fund must be deposited in a trustworthy repository
- It is a priority at the political level in France (PNSO1 and 2)

Credits and resources

L'Hours, H., Kleemola, M., & de Leeuw, L. (2019). CoreTrustSeal: From academic collaboration to sustainable services. *IASSIST Quarterly*, 43(1), 1–17. <https://doi.org/10.29173/iq936>

La certification CoreTrustSeal, Historique, évolutions récentes et perspectives, Olivier Rouchon, CNRS / DDOR. 30/03/2023. https://www.association-aristote.fr/wp-content/uploads/2023/03/pres_PINcertification-dentrepots-de-donnees_CTS_historique_evolutions_perspectives.pdf

Françoise Genova, Aude Chambodut, Olivier Rouchon, Gilles Ohanessian. La certification des entrepôts de données. *Printemps de la Donnée 2024*, INRAE; Université Haute-Alsace; Université de Strasbourg; INSA; PNDB; AgroParisTech; Université de Lille; Sorbonne Université; Data Terra, Mar 2024, Strasbourg, France. [hal-04680311](https://hal.archives-ouvertes.fr/hal-04680311)

CoreTrustSeal Standards and Certification Board. (2025). CoreTrustSeal Requirements 2026-2028. Zenodo. <https://doi.org/10.5281/zenodo.17660463>

Thank you !



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