



Trusted Infrastructure Needs DINvolution

the DINI Certificate for Open Access Publication Services





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Motivation

What is the DINI-Certification?

Tool-Case

Outview





„DINIvolution“





Motivation

- „*DINI Certificate for Open Access Publication Services 2022*“ [1]
- Why? [2]
 - Develop a context of trusted, professional publishing services
 - Standardize and support OA publishing
 - Impact and sustainability
 - Quality and safety
 - Implement international standards
 - Interoperability
 - Connectivity and networking

[1] de: DOI: 10.18452/24678 en: zenodo.org/record/8324738 (DOI will follow, after the text has been brought into the finished layout...)

[2] dini.de/dienste-projekte/dini-zertifikat/argumente-fuer-das-dini-zertifikat/

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DINI Certificate

- What?
- **71** minimum requirements + **53** recommendations within **11** certification aspects:
 - Visibility of the services
 - Guidelines (policy)
 - Support of authors and publishers
 - Legal aspects
 - Information security
 - Indexing and interfaces
 - Open metrics
 - Long-term archiving
 - OAI interface
 - OAI-PMH: Additional requirements
 - Metadata requirements of the OAI interface





DINI Certificate

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Validation process

re-implemented from scratch in 2023





Validation



DEUTSCH

The **DINI Validator** enables you to test if the [OAI-PMH API](#) of your open access publication service and its records fulfill the requirements of the [DINI Certificate](#). You will receive an email with the validation result and hints on how to optimize your service.

OAI API URL

Records to check

 100 500 1000 5000 all

Email address for validation results

START VALIDATION

A project with support of the



in co-operation of *DINI ePub* working group and





Validation

Validator Result for publications.goettingen-research-online.de/oai/request DEUTSCH **DINI Score 76.9 %**

INTRO	Summary	
M.9-1	OAI Specification	✓
M.9-2	Performance and Persistence	!
M.9-3	XML Schema Conformity	✓
M.9-4	Incremental Harvesting	✓
M.9-5	Consistent Sets	!
M.9-6	Identify Elements	✓
R.9-1	Regular Interface Check	!
R.9-2	Communication of Changes	!
R.9-3	About Element	✓
R.9-4	Correct Description	!
M.10-1	Open Access Document Set	✓
M.10-2	Sets for disciplinary grouping	✗
M.10-3	Document and Publication Type Set	✗
R.10-1	Publication Status Set	✗
M.10-4	Deleting Strategy	✓
M.10-5	Resumption Token	✓
R.10-2	Harvest Batch Size	✓
R.10-3	Resumption Tokens Life Span	✗
R.10-4	The Attribute completeListSize	✓
M.11-1	Dublin Core	✓

Summary

OAI API URL: <https://publications.goettingen-research-online.de/oai/request>
Timestamp: 2023-08-28 15:27:24
Runtime: 9s
Files downloaded: 9
Records checked: 500
Ruleset: 2022
DINI Score: **76.9 %**

[Download results as JSON](#)

M.9-1 OAI Specification

✓ Passed

The OAI Interface complies with protocol specification version 2.0.

M.9-2 Performance and Persistence

! Manual checking required ⓘ Does not affect score

The OAI Interface is persistently available under the registered base URL and delivers sufficient performance.

- This is a prerequisite for reliable use of the interface by the service providers, and it ensures the minimization of communication problems, specifically aborted harvesting processes.

M.9-3 XML Schema Conformity

✓ Passed ⓘ Does not affect score

All replies by the OAI interface are well formed in the XML sense and valid with regard to the XML schema defined in the OAI specification and other XML schemata used for metadata formats.

- This requires a uniform and valid character coding for the entire OAI interface (and all datasets).
- Difficulties arise regularly with error messages in the XML stream sent by databases or applications.
- Even XML-valid error messages can disrupt the incremental harvesting and should be avoided.

The criteria catalog of the certificate and the Interface checks with the validator are also beyond a certification process of value.

Even if certification is currently not possible internationally, the criteria catalog and the validator are valuable sources. Also for research data repositories etc.





Validation

Validator Result for publications.goettingen-research-online.de/oai/request DEUTSCH DINI Score 76.9%

Criterion	Result	Description
M.11-2	! (Warning)	Atomic Structure of Dublin Core Elements
M.11-3	✓ (Passed)	Operable Identifier
M.11-4	! (Warning)	Data Structure in dc:creator
M.11-5	✗ (Failed)	Document and Publication Types
M.11-6	✗ (Failed)	DNB Subject Group
M.11-7	✗ (Failed)	Language Encoding
M.11-8	✓ (Passed)	Date Encoding
M.11-9	✓ (Passed)	Consistency of DataCite and Dublin Core
R.11-1	! (Warning)	Order of Identifiers
R.11-2	! (Warning)	Contributor Element
R.11-3	! (Warning)	Relation Element
R.11-4	! (Warning)	Subject Element
R.11-5	✗ (Failed)	Unique Date
R.11-6	! (Warning)	Grouping by Sources
R.11-7	! (Warning)	Direct Linking of Full Text
R.11-8	✗ (Failed)	COAR Resource Type
R.11-9	✗ (Failed)	ORCID ID in Creator and Contributor
R.11-10	⚠ (Warning)	Rights Element

R.11-10 Rights Element

16% passed *i* Does not affect score

The rights element is used to describe the legal (copyright) situation of an object. This includes the Open Access status as well as the license conditions.

The requirements laid down in Criterion 4 of the DINI certificate - Legal Aspects. M.4-10 must be followed when it comes to license conditions, i.e. use the license URL as the operable URL.

The Open Access status is to be labelled in line with the COAR Access Rights vocabulary. (see https://vocabularies.coar-repositories.org/access_rights).

418 issues found

- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/4594](https://publications.goettingen-research-online.de/2/4594)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/8584](https://publications.goettingen-research-online.de/2/8584)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/7403](https://publications.goettingen-research-online.de/2/7403)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/7407](https://publications.goettingen-research-online.de/2/7407)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/7751](https://publications.goettingen-research-online.de/2/7751)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/4423](https://publications.goettingen-research-online.de/2/4423)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/2947](https://publications.goettingen-research-online.de/2/2947)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/1464](https://publications.goettingen-research-online.de/2/1464)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/4421](https://publications.goettingen-research-online.de/2/4421)
- dc:rights is missing in [XML oai:publications.goettingen-research-online.de/2/1463](https://publications.goettingen-research-online.de/2/1463)

R.11-11 Document Description with DataCite Vocabulary

✗ Failed *i* Does not affect score

Find some publication repositories for testing:

dini.de/dienste-projekte/publikationsdienste

A service of DINI in co-operation with





Outview

- 2025: Next version of the DINI Certificate
- Application form: re-implementation (in progress)
- Back office: part of the application form

- Changes to international requirements:
 - English as main language
 - Chapter 4 (legal aspects) must be adapted to the respective legal systems
 - Opening up to other forms of publication is being discussed (research data etc.)





Thank you for your attention!

Questions? Remarks? Additions? Ideas? Suggestions?

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