DH-crud Documentation

Release 2019

DARIAH-DE

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A PFD version of the DH-crud Documentation you can find HERE.

The DARIAH-DE CRUD Service is the core storage service for the DARIAH-DE Repository. It talks to both the DARIAH-DE OwnStorage and PublicStorage. Two instances of the DH-crud are in use within the DARIAH-DE Repository: An only internally used instance that actually is creating and importing objects (via Publikator) and an externally used instance (the documented one) that is delivering publicly available data and metadata to the users.

CHAPTER

ONE

API DOCUMENTATION

To retrieve data and metadata you would need the object's Handle PID or DataCite DOI, such as

```
21.11113/0000-000B-C8EF-7
```

or

```
10.20275/0000-000B-C8EF-7
```

All requests below using the Handle PID can be equally stated using the DataCite DOI of the object. Just exchange the Handne PID prefix with the DataCite DOI prefix, such as:

> https://repository.de.dariah.eu/1.0/dhcrud/10.20375/0000-000B-C8EF-7

1.1 #VERSION

To check the current productive DH-crud version simply try:

> https://repository.de.dariah.eu/1.0/dhcrud/version

and you get the currently deployed version of the productive public DH-crud.

1.2 Content Negotiation

> https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7

Access on root object level provides content negotiated responses depending on Request Accept Header:

- Accept: **text/html** will provide the HTML landing page,
- Accept: **application/zip** will provide the ZIPped BagIt bag, and finally
- **leaving out** the Accept-header will return the data object itself in it's original mimetype.

1.3 #GET Data

https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/data

RESPONSE: A file object with appropriate Content-Type.

1.4 #GET BagIt Bag

https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/bag

RESPONSE: A DARIAH-DE Repository BagIt ZIP file object with Content-Type application/zip.

1.5 #GET RDA BagPack (Research Data Repository Interoperability WG)

https://trep.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/bag/pack

RESPONSE: A RDA WG Repository Interoperability BagIt ZIP file object with Content-Type application/zip (see ´working group web site ´<https://www.rd-alliance.org/groups/research-data-repository-interoperability-wg.html>´_).

1.6 #GET Descriptive Metadata (DMD)

Descriptive metadata are in DC namespace and to be added by the user importing data into the repository. Only the dc:identifier tags holding the URL, DOI, and Handle PID are added by the DH-crud service.

https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/metadata
(same as metadata/ttl)

RESPONSE: text/plain (TURTLE)

```
@prefix rdf:   <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix dariah: <http://de.dariah.eu/rdf/dataobjects/terms/> .
@prefix dc:    <http://purl.org/dc/elements/1.1/> .

<http://hdl.handle.net/21.11113/0000-000B-C8EF-7>
        a               dariah:Collection ;
        dc:creator      "DARIAH-DE" ;
        dc:description  "The collection containing the terms of use for the DARI
        dc:format       "text/vnd.dariah.dhrep.collection+turtle" ;
        dc:identifier   <http://dx.doi.org/10.20375/0000-000B-C8EF-7> , <http://
        dc:rights       "CC0" , "https://creativecommons.org/choose/zero/" ;
        dc:title        "DARIAH-DE Repository - Terms of Use" .
```

Different formats can be requested using

- TURTLE: /metadata/ttl (text/plain)
- RDF/XML: /metadata/xml (text/xml)
- JSON: /metadata/json (application/json)
- JSONLD: /metadata/jsonld (application/json)
- NTRIPLES: /metadata/ntriples (text/plain)

1.7 #GET Administrative Metadata (ADMMD)

Administrative metadata are in DCTERMS namespace and created by the DH-crud service itself at importing time.

> https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/adm
> (same as adm/ttl)

RESPONSE: text/plain (TURTLE)

```
@prefix premis: <http://www.loc.gov/premis/rdf/v1#> .
@prefix rdf:   <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix dcterms: <http://purl.org/dc/terms/> .
@prefix dariah: <http://de.dariah.eu/rdf/dataobjects/terms/> .

<http://hdl.handle.net/21.11113/0000-000B-C8EF-7>
        a                           dariah:Collection ;
        dcterms:created             "2017-12-04T19:25:31.028" ;
        dcterms:creator             "StefanFunk@dariah.eu" ;
        dcterms:extent              "436" ;
        dcterms:format              "text/vnd.dariah.dhrep.collection+turtle" ;
        dcterms:identifier          <http://dx.doi.org/10.20375/0000-000B-C8EF-
        dcterms:modified            "2017-12-04T19:25:31.028" ;
        dcterms:source              "https://cdstar.de.dariah.eu/dariah/EAEA0-4
        premis:hasMessageDigest     "be66b89927c01eb13a0f924f1f7de5a0" ;
        premis:hasMessageDigestOriginator
                "dhcrud-base-7.36.0-DH.201712041055" ;
        premis:hasMessageDigestType  "md5" .
```

Different formats can be requested using

- TURTLE: /adm/ttl (text/plain)
- RDF/XML: /adm/xml (text/xml)
- JSON: /adm/json (application/json)
- JSONLD: /adm/jsonld (application/json)
- NTRIPLES: /adm/ntriples (text/plain)

1.8 #GET Technical Metadata (TECHMD)

Technical metadata is extracted from each single object (content file) at import. A File Information Tool Set (FITS) service is used by the DH-crud.

https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/tech

RESPONSE: text/xml (FITS XML)

```
<?xml version="1.0" encoding="UTF-8"?>
<fits xmlns="http://hul.harvard.edu/ois/xml/ns/fits/fits_output" xmlns:xsi="http
  <identification>
    <identity format="Plain text" mimetype="text/plain" toolname="FITS" toolvers
      <tool toolname="Droid" toolversion="6.1.5" />
      <tool toolname="Jhove" toolversion="1.16" />
      <tool toolname="file utility" toolversion="5.14" />
      <externalIdentifier toolname="Droid" toolversion="6.1.5" type="puid">x-fmt
    </identity>
  </identification>
  <fileinfo>
    <size toolname="Jhove" toolversion="1.16">436</size>
    <filepath toolname="OIS File Information" toolversion="0.2" status="SINGLE_R
    <filename toolname="OIS File Information" toolversion="0.2" status="SINGLE_R
    <md5checksum toolname="OIS File Information" toolversion="0.2" status="SINGL
    <fslastmodified toolname="OIS File Information" toolversion="0.2" status="SI
  </fileinfo>
  <filestatus>
    <well-formed toolname="Jhove" toolversion="1.16" status="SINGLE_RESULT">true
    <valid toolname="Jhove" toolversion="1.16" status="SINGLE_RESULT">true</vali
  </filestatus>
  <metadata>
    <text>
      <linebreak toolname="Jhove" toolversion="1.16" status="SINGLE_RESULT">LF</
      <charset toolname="Jhove" toolversion="1.16">US-ASCII</charset>
      <standard>
        <textMD:textMD xmlns:textMD="info:lc/xmlns/textMD-v3">
          <textMD:character_info>
            <textMD:charset>US-ASCII</textMD:charset>
            <textMD:linebreak>LF</textMD:linebreak>
          </textMD:character_info>
        </textMD:textMD>
      </standard>
    </text>
  </metadata>
  <statistics fitsExecutionTime="66">
    <tool toolname="MediaInfo" toolversion="0.7.75" status="did not run" />
    <tool toolname="OIS Audio Information" toolversion="0.1" status="did not run
    <tool toolname="ADL Tool" toolversion="0.1" status="did not run" />
    <tool toolname="VTT Tool" toolversion="0.1" status="did not run" />
    <tool toolname="Droid" toolversion="6.1.5" executionTime="5" />
    <tool toolname="Jhove" toolversion="1.16" executionTime="44" />
```

```
    <tool toolname="file utility" toolversion="5.14" executionTime="56" />
    <tool toolname="Exiftool" toolversion="10.00" status="did not run" />
    <tool toolname="NLNZ Metadata Extractor" toolversion="3.6GA" status="did not
    <tool toolname="OIS File Information" toolversion="0.2" executionTime="21" /
    <tool toolname="OIS XML Metadata" toolversion="0.2" status="did not run" />
    <tool toolname="ffident" toolversion="0.2" executionTime="23" />
    <tool toolname="Tika" toolversion="1.10" executionTime="32" />
  </statistics>
</fits>
```

1.9 #GET Provenance Metadata (PROVMD)

The DARIAH-DE Repository is not yet using provenance matadata.

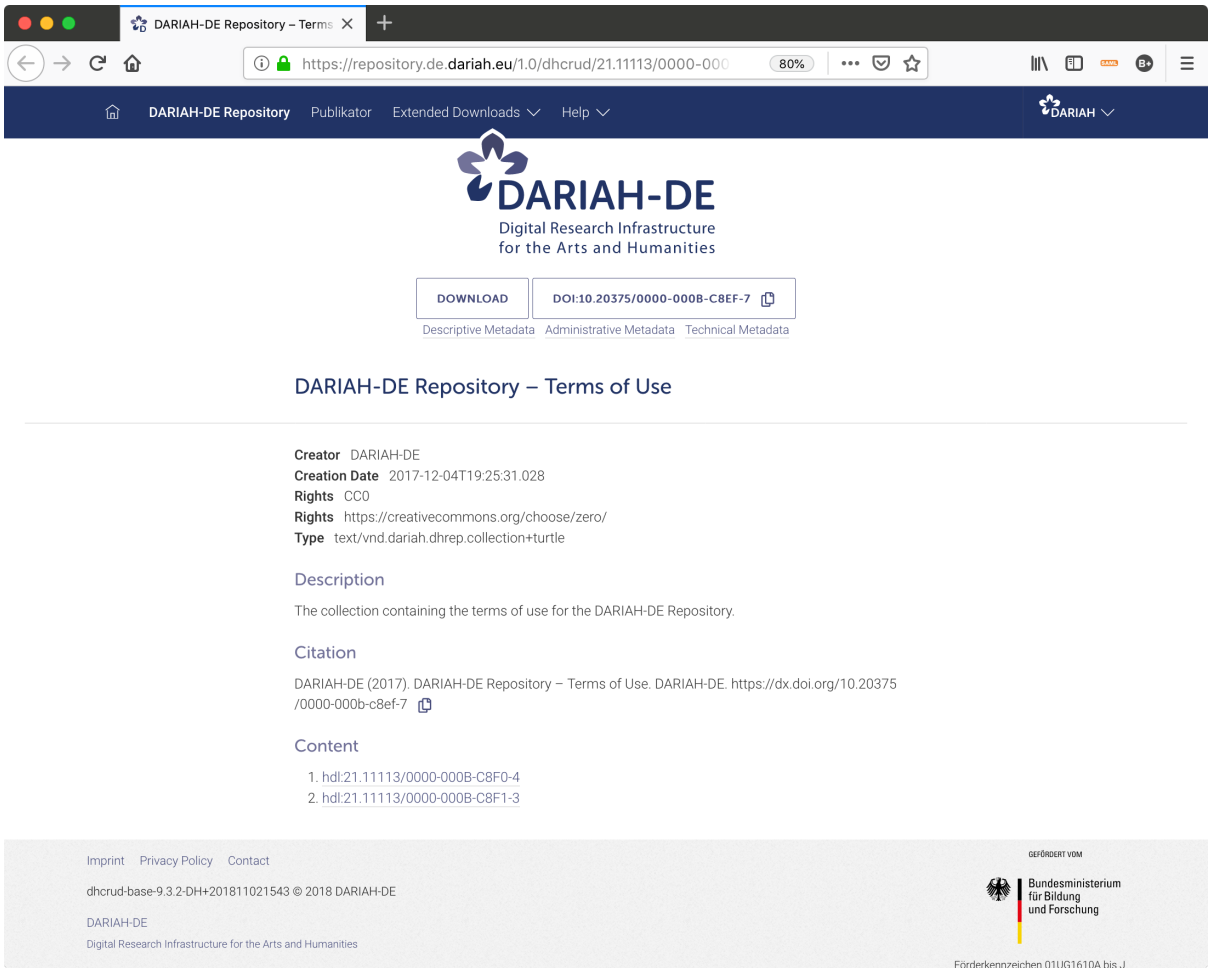
https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/prov

RESPONSE: HTTP 500 – Internal Server Error (not yet implemented)

1.10 #GET Object Landing Page

https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/landing

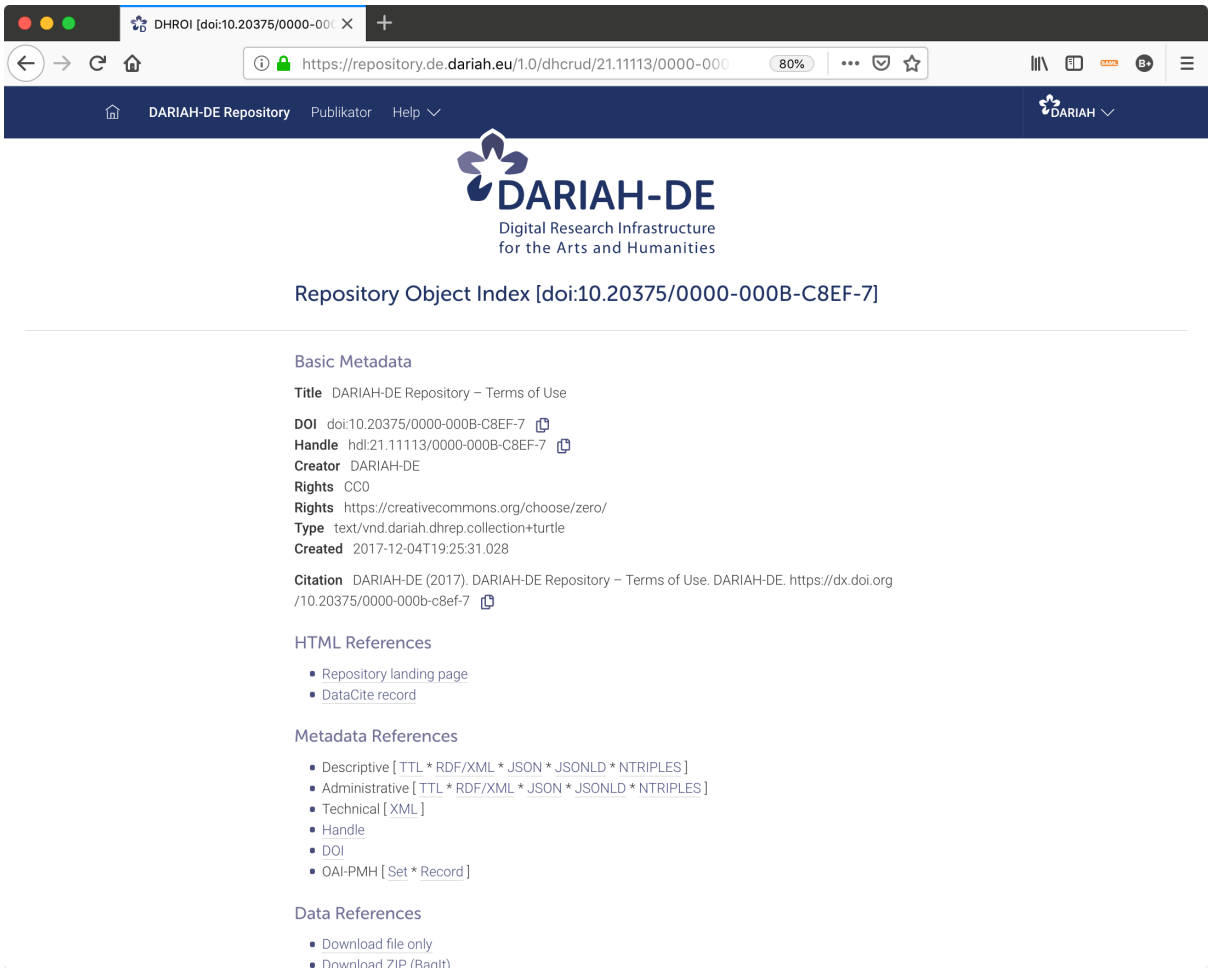
RESPONSE: text/html



1.11 #GET Object Index Page

https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000B-C8EF-7/index

RESPONSE: text/html


DHROI [doi:10.20375/0000-00
https://repository.de.dariah.eu/1.0/dhcrud/21.11113/0000-000
80%
DARIAH-DE Repository
Publikator
Help
DARIAH
DARIAH-DE
Digital Research Infrastructure
for the Arts and Humanities
Repository Object Index [doi:10.20375/0000-000B-C8EF-7]
Basic Metadata
Title DARIAH-DE Repository – Terms of Use
DOI doi:10.20375/0000-000B-C8EF-7
Handle hdl:21.11113/0000-000B-C8EF-7
Creator DARIAH-DE
Rights CC0
Rights https://creativecommons.org/choose/zero/
Type text/vnd.dariah.dhrep.collection+turtle
Created 2017-12-04T19:25:31.028
Citation DARIAH-DE (2017). DARIAH-DE Repository – Terms of Use. DARIAH-DE. https://dx.doi.org/10.20375/0000-000b-c8ef-7
HTML References
Repository landing page
DataCite record
Metadata References
Descriptive [TTL * RDF/XML * JSON * JSONLD * NTRIPLES]
Administrative [TTL * RDF/XML * JSON * JSONLD * NTRIPLES]
Technical [XML]
Handle
DOI
OAI-PMH [Set * Record]
Data References
Download file only
Download ZIP (BagIt)

CHAPTER

TWO

SOURCES

See dhcrud_sources

CHAPTER

THREE

BUGTRACKING

See dhcrud_bugtracking

CHAPTER

FOUR

LICENCE

See LICENCE