

OAI-PMH API

OpenArchives Initiative Protocol for Metadata Harvesting AMČR API

2024-07-11

i API is available here: <https://api.aiscr.cz/oai?verb=Identify>.
User registration is available here: <https://amcr.aiscr.cz/accounts/register/>.
This guide is valid for version 2.0.0 of the service.

OAI-PMH AMČR API hosts *AMČR Data Provider* service providing metadata from the AMČR database using the *OpenArchives Initiative Protocol for Metadata Harvesting* (OAI-PMH).

The implementation supports two metadata standards:

- [Dublin Core](#) – part of the AMČR data set with metadata on documents and their descriptions,
- AMČR XML – native format with a complete representation of the whole AMČR database.

Access

The access to some metadata is protected by user roles:

- A (anonymous) – anyone on the internet accessing AMČR services,
- B (researcher) – registered users,
- C (archaeologist) – archaeologist from a licensed organisation,
- D (archivist) – AMČR authorized archivist.

Registration to the system is available here: <https://amcr.aiscr.cz/accounts/register/>.

Specification

Schema

Filters

State and accessibility of the record

Sets

Table 1: Available sets

| setSpec | setName |
|------------------|---|
| projekt | Projekty / Projects |
| akce | Akce / Fieldwork Events |
| lokalita | Lokalita / Sites |
| dok_jednotka | Dokumentační jednotky / Descriptive Units |
| adb | Archeologický dokumentační bod / Archaeological Documentation Point |
| dokument | Dokumenty / Documents |
| soubor | Soubory / Files |
| pian | PIAN / Spatial Units |
| ext_zdroj | Externí zdroje / External Sources |
| let | Lety / Flights |
| samostatny_nalez | Samostatné nálezy / Individual Finds |

Datestamps

Login and authorization

cURL

Postman

OAI-PMH Verbs

OAI-PMH protocol defines several verbs that allow metadata harvesting. OAI-PMH specification is available [here](#).

Identify

Verb **Identify** is used to get information about the repository.

Query: <https://api.aiscr.cz/oai?verb=Identify>

Sample response:

```
<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/oai.xsd">
  <responseDate>2024-07-11T12:26:50Z</responseDate>
  <request verb="Identify">http://digiarchiv:8080/oai</request>
  <Identify>
    <repositoryName>Archaeological Map of the Czech Republic (AMCR)</repositoryName>
```

```

<baseURL>https://api.aiscr.cz/oai</baseURL>
<protocolVersion>2.0</protocolVersion>
<adminEmail>info@amapa.cz</adminEmail>
<earliestDatestamp>1990-01-01</earliestDatestamp>
<deletedRecord>persistent</deletedRecord>
<granularity>YYYY-MM-DDThh:mm:ssZ</granularity>
<description>
  <rightsManifest xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/rights/ http://www.openarchives.org/OAI/2.0/rights/">
    <rights>
      <rightsReference ref="http://creativecommons.org/licenses/by-nc/4.0/rdf"/>
    </rights>
  </rightsManifest>
</description>
<description>
  <oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
    <dc:title xml:lang="cs">Archeologická mapa České Republiky (AMČR)</dc:title>
    <dc:title xml:lang="en">Archaeological Map of the Czech Republic (AMCR)</dc:title>
    [...]
    <dc:identifier>https://api.aiscr.cz/</dc:identifier>
    <dc:identifier>version 2.0.0</dc:identifier>
    [...]
  </oai_dc:dc>
</description>
</Identify>
</OAI-PMH>

```

ListMetadataFormats

Verb `ListMetadataFormats` returns available metadata formats/standards.

Query: <https://api.aiscr.cz/oai?verb=ListMetadataFormats>

Sample response:

```

<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/">
  <responseDate>2024-07-11T12:46:31Z</responseDate>
  <request verb="ListMetadataFormats">http://digiarchiv:8080/oai</request>
  <ListMetadataFormats>
    <metadataFormat>
      <metadataPrefix>oai_dc</metadataPrefix>
      <schema>http://www.openarchives.org/OAI/2.0/oai_dc.xsd</schema>
      <metadataNamespace>http://www.openarchives.org/OAI/2.0/oai_dc/</metadataNamespace>
    </metadataFormat>
    <metadataFormat>
      <metadataPrefix>oai_amcr</metadataPrefix>
    </metadataFormat>
  </ListMetadataFormats>
</OAI-PMH>

```

```

    <schema>https://api.aiscr.cz/schema/amcr/2.0/amcr.xsd</schema>
    <metadataNamespace>https://api.aiscr.cz/schema/amcr/2.0/</metadataNamespace>
  </metadataFormat>
</ListMetadataFormats>
</OAI-PMH>

```

Supported metadata formats are:

- Dublin Core – metadataPrefix=oai_dc, schema available here http://www.openarchives.org/OAI/2.0/oai_dc.xsd,
- native AMČR .xml format – metadataPrefix=oai_amcr, schema available here <https://api.aiscr.cz/schema/amcr/2.0/>.

ListIdentifiers

Verb **ListIdentifiers** lists record headers. Required parameter is **metadataPrefix**, optional arguments allow filtering based on predefined sets (**set**) and/or datestamps (**from**, **until**). Only first page with limited amount of records is returned, to go to the next page, user has to submit a **resumptionToken** returned in the response.

Query: https://api.aiscr.cz/oai?verb=ListIdentifiers&metadataPrefix=oai_amcr

Sample response:

```

<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.
  <responseDate>2024-07-11T12:51:03Z</responseDate>
  <request verb="ListIdentifiers" metadataPrefix="oai_amcr">http://digiarchiv:8080/oai</re
  <ListIdentifiers>
    <record>
      <header>
        <identifier>https://api-test.aiscr.cz/id/C-202013149</identifier>
        <timestamp>2024-07-11T12:27:13.968Z</timestamp>
        <setSpec>projekt</setSpec>
      </header>
    </record>
    <record>
      <header>
        <identifier>https://api-test.aiscr.cz/id/P-0334-000377</identifier>
        <timestamp>2024-07-11T12:12:19.386Z</timestamp>
        <setSpec>pian</setSpec>
      </header>
    </record>
    <record>
      <header>
        <identifier>https://api-test.aiscr.cz/id/C-DL-200400209</identifier>

```

```

        <timestamp>2024-07-11T12:10:48.403Z</timestamp>
        <setSpec>dokument</setSpec>
    </header>
</record>
[...]
    <resumptionToken completeListSize="859142" cursor="0">8F37FA46A1BE68D815CAE66EDFD7EE64
</ListIdentifiers>
</OAI-PMH>

```

ListRecords

Verb **ListRecords** lists records. Required parameter is **metadataPrefix**, optional arguments allow filtering based on predefined sets (**set**) and/or timestamps (**from**, **until**). Only first page with limited amount of records is returned, to go to the next page, user has to submit a **resumptionToken** returned in the response.

Query: https://api.aiscr.cz/oai?verb=ListRecords&metadataPrefix=oai_dc

Sample response:

```

<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.
    <responseDate>2024-07-11T13:25:02Z</responseDate>
    <request verb="ListRecords" metadataPrefix="oai_dc">http://digiarchiv:8080/oai</request>
    <ListRecords>
        <record>
            <header>
                <identifier>https://api-test.aiscr.cz/id/C-202013149</identifier>
                <timestamp>2024-07-11T12:27:13.968Z</timestamp>
                <setSpec>projekt</setSpec>
            </header>
            <metadata>
                <oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://
                    <oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http:
                        <dc:title xml:lang="cs">AMČR - projekt C-202013149</dc:title>
                        <dc:identifier>C-202013149</dc:identifier>
                        <dc:subject xml:lang="cs">projekt</dc:subject>
                        <dc:description xml:lang="cs">Stav: 6</dc:description>
                        <dc:type>http://base_url/id/HES-000865</dc:type>
                    [...]
                </oai_dc:dc>
            </oai_dc:dc>
        </metadata>
    </record>
    <resumptionToken completeListSize="859142" cursor="0">2A997D362431AC3FC670E2680E61D782

```

```
</ListRecords>
</OAI-PMH>
```

GetRecord

Query:

Sample response:

ListSets

Verb `ListSets` lists available sets.

Query: <https://api.aiscr.cz/oai?verb=ListSets>

Sample response:

```
<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/oai_dc/">
  <responseDate>2024-07-11T13:28:01Z</responseDate>
  <request verb="ListSets">http://digiarchiv:8080/oai</request>
  <ListSets>
    <set>
      <setSpec>projekt</setSpec>
      <setName>Projekty / Projects</setName>
      <setDescription>
        <oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc/">
          <dc:description xml:lang="cs">
            Evidenční jednotky terénní činnosti badatelského nebo záchranného rázu evidované
          </dc:description>
          <dc:description xml:lang="en">
            Records of field activities of a research or development-led nature recorded in
          </dc:description>
        </oai_dc:dc>
      </setDescription>
    </set>
    [...]
  </ListSets>
</OAI-PMH>
```

Query parameters

Table 2: Required and optional query parameters

| verb | required | optional |
|---------------------|----------------------------|-----------------------------------|
| Identify | | |
| ListMetadataFormats | | |
| ListIdentifiers | metadataPrefix | set, from, until, resumptionToken |
| ListRecords | metadataPrefix | set, from, until, resumptionToken |
| GetRecord | identifier, metadataPrefix | |
| ListSets | | |

Pagination

Filters

Record accessibility

Sets

Datestamps