The central catalogue service in Germany

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Overview

- Situation in Germany regarding metadata

- Architecture of Geodatenkatalog-DE

- Quality management – catalogue test

- Advantages of the Geodatenkatalog-DE

- Project schedule

- Summary
Double Datasets, harvesting, cascading, slight different interfaces, different content, INSPIRE compliant?, Annex I, (II), …?, comparison to Monitoring&Reporting?, actuality?, Service metadata?

- Federation of 16 States (12 Discovery services (inter-) operable)
- country level data and services -large scale (12 Discovery Services inter-operable)
- Thematic networks (2 Discovery services inter-operable)
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Country level data and services - large scale (12 Discovery Services inter-operable)

Thematic networks (2 Discovery services inter-operable)

Double Datasets, harvesting, cascading, slight different interfaces, different content, actuality?, INSPIRE compliant?, Annex I, (II), ...?, comparison to Monitoring&Reporting?, Service metadata?

These Data need to be collected, Double datasets deleted, ranked, made available via 1 central interoperable, INSPIRE compliant discovery service

Setup a project to meet the requirements of users and applications
Architecture Geodatenkatalog-DE

Applications
Geoportals (INSPIRE Geoportal)

Network Services
Registry

Discovery

Ranking mechanism

Filter to sort out double datasets

Internet

Crawling component for harvesting of distributed Metadata

Catalogue Test AP ISO 1.0/INSPIRE compliant?

Index → performant search

Xml file storage

Distributed Discovery Services (16+x)

Discovery

Discovery

Discovery

Discovery

Metadata INSPIRE/ISO compliant?
3 Documents:

1. Document: Abstract Test Suite for OGC CSW 2.0.2 AP ISO 1.0
2. Document: CTL-scripts (CTL=Compliance-Test-Language)

http://www.gdi-de.org/de_neu/test/navl_test.html
The Conformance Test for AP ISO 1.0 (Level 1: Discovery) is based on the OGC Team Engine. More than 3 Catalogues are compliant (one open source) so that the Test can be placed as official OGC test.

<table>
<thead>
<tr>
<th>Level</th>
<th>name</th>
<th>detail</th>
<th>obligation</th>
<th>Sample data required ?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Interface- and Binding-Availability</td>
<td>operations and binding (HTTP GET/-POST, SOAP)</td>
<td>Mandatory for OGC-conformance</td>
<td>none</td>
</tr>
<tr>
<td>1.2</td>
<td>Correctness of Request- and Response-Structures</td>
<td>Conformity of XML-structure (including filter encoding)</td>
<td>Mandatory for OGC-conformance</td>
<td>none</td>
</tr>
<tr>
<td>1.3</td>
<td>Correctness of Results</td>
<td>GetCapabilities (Content) GetRecords (serveral)</td>
<td>Mandatory for OGC-conformance</td>
<td>DataSet, DataSetCollection, Application</td>
</tr>
<tr>
<td>1.4</td>
<td>Support for Service-Metadata</td>
<td>GetRecords (filter iso:ServiceType and iso:OperatesOn)</td>
<td>optional</td>
<td>Service-Metadata (WMS,WFS)</td>
</tr>
<tr>
<td>1.5</td>
<td>Support for Multi-Language</td>
<td>GetRecords-Multilingual</td>
<td>optional</td>
<td>Application (same as level 1.3)</td>
</tr>
</tbody>
</table>
Advantages

- Discovery
- Quick, high Quality, Cost efficient
- Tests with INSPIRE Portal
- 1 access point
- 1 maintainance
- Approved OGC compliance
- 1x IR Network Services compliant
Project schedule, Phase 2

19.01.2010: Kick off workshop
26.03.2010: further development of CSW Test complete
July – Dec. 2010: deployment of a new crawler component
July 2010 – May 2011: connection of distributed catalogues
May 2011: initial operation of the Geodatenkatalog-DE
November 2011: Geodatenkatalog-DE operational
Summary

- system for interdisciplinary collection, consolidation, contribution and search of metadata.

- metadata from distributed catalogues of municipality, state and country level

- central German metadata node for INSPIRE and German SDI

- indexing of the metadata for a quick search

- storage of the complete, original xml-files

- ranking is realised for the simple search

- Double datasets are deleted

Result: a consolidated, efficient and high – performance data access for INSPIRE, GEOSS and the German SDI
Contact

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