Discovery Workshop [1]

Submitted by superadmin on Wed, 2012-02-01 12:21 Thursday, January 5, 2012 - 14:00 to 15:30

Event: Winter Meeting 2012 [2]
Session Type: Workshop [3]
Collaboration Area: Discovery [4]

Abstract/Agenda:

The set of ESIP Discovery services encompass the overlapping conventions of Earth science federated OpenSearch, Collection Casting, Granule Casting, and Service Casting feed standards. This workshop will cover some technical discussions of

how Discovery services and specifications can be practically applied to facilitate collaborations by enabling sharing of services and data.

Interoperability for OGC services (50-minutes, Chris Lynnes)

■ DCP-3

mime-type

■ Slides on "OGC and ESIP Discovery. OR Can't we all just get along??" [5]

■ OGC proposing OpenSearch specification.

■ we need to converge with OGC specification as much as possible.

■ OGC's approaches are intended to be compatible with the mass-market

■ time
■ Key Differences in Atom Response ■ ESIP: OpenSearch time request extension adopted to response.
■ OGC: dc:date, which is soft type and schema-less
■ link identification

■ to determine best approach to link identification, best to identify first the key issues trying to solve.

■ DCP-1
■ Link identification approaches
■ DCP-2

■ return IANA rel + ESIP-specific attributes

■ mime-types also support services via "application/" prefix.

■ "DCP-3"-style + mime-type combined approach

OGC had a problem with this approach since ignored by mass-market tools.

primary and secondary type delimited with "+" is formally supported in mime-type values.

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Interoperability for OpenSearch in various types of casting (45-minutes, Brian Wilson and Jess Lacy)
■ increasing need for adding semantics ■ Casting at NSIDC
 need to decouple service (e.g. opensearch) and encoding type response (e.g. application/atom+xml) Links between casts
 custom request parameters Interoperability NSIDC has custom Query attributes in OSDD to codify the custom parameter types. Error handling
Notes: Key Topics
(List any key topics covered.)
DCP-3 and <link/> specifications
Chris Lynnes presents on convergence of OGC and ESIP Discovery specifications. The presentation covers some of the players involved in the specs being converged (Discovery Cluster, OGC, OSGeo, GENESI-DR). It also summarizes the various
specs (DCP-1,2,3, OGC Geospatial Extensions Draft).
There are some similarities in the OGC and ESIP Discovery approaches. See slides from link below for a comprehensive list.
There are key differences between the Discovery and OGC specifications. Namely,

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	Discovery repurposes the OpenSearch time extension parameters for XML elements. Atom Response Tine可以使用的 Core approach.
	■ Paging isn't explicitly recommended in the Discovery approach (although it is part of the OpenSearch specification).
	■ OGC uses IANA only for link tag "rel" attributes.
There are a nun	ber of options for link> tags and the *rel" attributes.
	■ The problem was that DCP-1 could not distinguish OPeNDAP links from regular data links ■ DCP-1 uses ESIP namespaced values for 'rel'.
	■ DCP-1 uses ESIP namespaced values for *rel*.
	■ DCP-2 uses a specific "rel" value for each service type (e.g., OPeNDAP).
	2 uses a specific for value to each service type (e.g., or cross).
	■ DCP-3 uses IANA standards for "rel" values and some ESIP specific (namespaced) attributes.
	No.
	- MME type he ESIP Conventions have helped with NSIDC work.
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Discovery Workshop Published on Commons (https://commons.esipfed.org) Also covered custom parameters and metadata collection standards. Contributions DCP-3 and <link> specifications James G. - MIME types are intended to describe the response, not the service Chris M. - You are using the MIME type correctly Steve - Atom is extensible, why not use any of the standards and allow the clients to pick and choose what they want to use. Brian Wilson - Using MIME types has the potential to have exponential growth. What about versioning? (Chris) We don't need to worry about MIME types at this time. Eric - Who is creating the tools that use these specs? (Chris) We are. (Eric) Then does it really matter if we use extra attributes, other clients can just ignore them? Hook - We are trying to keep things as simple as possible. ?? - I thought service casting covered most of these use cases. (Chris) Service casting is more complex than the Discovery Cluster wants to go (requiring a dereference) Ruth - Ultimate goal is to be able to aggregate as much data as possible. So as much alignment with GENESI-DR as possible is optimal. Related Projects ■ (http://www.osgeo.org/ [6]) ■ The Open Source Geospatial Foundation (OSGeo) is leading the OpenSearch spec. for the OGC. ■ (http://www.genesi-dec.eu/ [7]) ■ GENESI-DR is a consortium of Earth observation repositories that will be applying the OSGeo spec. Other Straw poll

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- DCP-3 5
- MIME type 7
- "Double Abomination" 5

Original Notes

http://twc.titanpad.com/221 [8]

Actions:

• DCP-4 for <dc:date> replacement of <time:start> and <time:end>?

- DCP-5 for valid parameters specification through < opensearch:Query>?
- DCP-6 or best practices for error handling?

Session Leads:

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[11]

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