Discovery Cluster Planning [1]

 Submitted by Rozele on Thu, 2012-11-01 13:29   Tuesday, January 8, 2013 - 16:00 to 17:30
Event: Winter Meeting 2013 [2]
Session Type: Breakout [3]
Expertise Level: Intermediate [4]
Collaboration Area: Discovery [5]
Abstract/Agenda:

1. Discuss the status and plans for the Discovery Request For Comments [6] to be submitted to NASA's Standards and Processes Group.
2. Develop, review and populate the Discovery Implementation Coverage Matrix [7] that summaries the feature set of capabilities.
3. Discuss plans for going forward with the ESIP Geoportal
4. Prepare for Grand Challenges Session (link [8])
5. Other Topics?

Notes:
Discovery Planning Breakout Session Notes

I. Lynnes

Discovery RFC; Memo for NASA Earth Science Data Systems on standards

Section 7: description of what doing, OpenSearch document but also data casting

Yoshi commented so added data casting. Need Ruth to check data casting is correct; can make changes directly in document

Added more introductory material: data casting is whole framework without the query, which is provided by provider

Atom is still preferred syndication format

[comments in doc show required/optional components for cliff's notes on document]

Search terms: optional, but expect at data set level but not granular

multiple search terms separated by '+' which is equivalent to boolean 'AND'

Discussion: why not use space? Default behavior versus special keywords. So the plus should be in URL

Put a plus, or put a plus or a space

Agreed 'AND'...but need to take back to labs, keep figuring out string

Default behavior for multiple terms is 'AND'

Time extension: optional. If use follow OpenSearch extension

slash in response to separate date range

Spatial extension: optional

having a minimum bounding box

Recursive OpenSearch queries: optional

drilling down to more specific queries

Characterizing atom link elements

How deal with versions of netCDF? --> see what rest of community is doing. Does client care that much? Most can handle 4. Matt: look around to see if acceptable way to encode (by next week)

Characterizing OpenDAP link elements

Make note: don't have to send back all 6

new code

Versioning: required

Parser resolves namespace so lose version. Added space to enable xpath discovery. Redundant about the version, but not a big deal

what version getting is not specified

disambiguate notion of version: not the dataset, left to providers

Error handling: required

resolves error for success with no returns

Implementation

make bulleted list names (no URLs)

need to name check

add something about conformity; not up to standards yet bc didn't have them

II. Hua

Implementation coverage matrix

fill out which feature sets are being used/popular/planned but not implemented

add column root suffix OPeNDAP link elements

add columns for 'or' and 'not'

Anything else should add?

every time have RFC have reference implementation: useful?

simple enough to already implement in applications where need to use it

but an aspect of compliance testing useful if can do cheaply: gain v. cost

a quick sanity test. Need default: grand default of what to do if ask to do something canon (circle search)

have a template of capabilities

Not sure ultimately...accumulate some compliance resources

Propose writing up, Funding Friday this summer....

ESIP Discovery mail list for questions/issues/ambiguity

Put in RFC, explain ongoing change processes 9end of implementation section]

Actions:

RFC Action Items

- Ruth and JPL Representative(s) - check the Datacasting section in RFC
- Ruth (or other) - update document to state Datacasting as an "advertisement" and "page rank" in RFC
- OpenSearch Focused Members - take a look at the Datacasting section in RFC
- JPL DAAC Rep - Write RSS specification in RFC
- Eric - "+" is in URL, not in the data that gets parsed by the server (create DCP?)
- Eric - Find default behavior for searchTerms in OpenSearch ("space-delimited")

- - Note, Chris was correct in stating there is no default "boolean" behavior, but the default delimiter is a "space" character
  - Chris - update spec to explicitly state that recursive OpenSearch queries imply subsetting operations (as opposed to broader or related search)
  - Matt - look for different ways of representing MIME types for netCDF3 vs netCDF4 (or HDF4 vs HDF5)
  - Chris - For OPeNDAP, make a change to denote that not all 6 response types are required
  - Chris - Disambiguate notion of versioning to ensure we're not talking about dataset version (which is left up to the providers)
  - Chris - Add bulleted list of implementations (with or without URLs)
  - Chris - Acknowledge in Implementation section that most servers and clients "loosely conform"
  - All - Update the Implementations section of the RFC with your implementations
  - Chris - Add note at end of implementations section that any issues should be reported to the ESIP Discovery mailing list

Implementation Matrix Action Items

- Hook - add "root" entry point column for OPeNDAP link to Google Doc
- Hook - add columns for "OR" and "NOT" for boolean search capabilities
- Chris - Reach out to Pedro and Yoshi to try and get more implementations on the Google Doc
- ??? - add AEROSTAT to Google Doc
- Chris - Reach out to UAH and SCS (Ken Keiser or Helen) for Google Doc contribution

Session Leads:

Name: Hook Hua [9]
Organization(s): Jet Propulsion Lab [10]

Name: Chris Lynnes [11]
Organization(s): NASA Goddard Space Flight Center [12]
Email: christopher.s.lynnes@nasa.gov [13]

Notes takers:

Name: Sarah Clark [14]
Organization(s): National Center for Ecological Analysis and Synthesis [15]
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Teaser: Help plan the Discovery Cluster's activities for the coming year

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