[Discovery March 2012](#) **[1]**

  Submitted by superadmin on Wed, 2012-04-25 21:58   Tuesday, March 13, 2012 - 16:00
Event: [Telecon Minutes](#) [2]
Session Type: [Business Meeting](#) [3]
Collaboration Area: [Discovery](#) [4]
Abstract/Agenda:

- DCP updates
    - DCP-4: Use of xlink attributes in Atom <link> tags
    - DCP-5: Use of OpenSearch <Query> tags for valid parameter values
    - DCP-6: Replace overloaded time:start and time:end tags with dc:date
    - [DCP-7: Error Handling Best Practices for Discovery Repsonse](#) [5]
- Planning for ESIP summer meeting
    - [http://wiki.esipfed.org/index.php/Summer_2012_Meeting#Submit_a_Session](#) [6]
- Discovery Testbed
    - [Discovery_Testbed_Work_Plan](#) [7] contains Use Cases and [Functional Requirements](#) [8]
- Brian's service cast "Relax NG" validator service

Notes:

DCP Updates

- DCP-2
    - deprecated (withdrawn)
    - replaced by DCP-3
- DCP-3
    - deprecated (withdrawn)
    - replaced by DCP-4
- DCP-4
    - is this ready for voting?
    - currently just about OPeNDAP links
    - vote on DCP-4 as a move forward, then generalize
    - we needed an extra attribute to express that the service was OPeNDAP
    - Brian will write the generalized version
    - Chris will set up Doodle poll
    - Has James updated the examples per Pedro's request? (yes)
        - The server might be configured to give you an error message or an HDF file, so it could be type="text/plain"
        - The default case is an error message
        - James should right up more justifying why the example has the attributes it does, and maybe add more examples
    - Is there any need to have a dereferenceable xlink:role?
        - Yes, but it should not be required
        - An XSD is as good of a URI as any
    - Should the OPeNDAP URL (example 2 as of meeting time) be rel="enclosure" since it should return metadata?
    - Keep the xlink:role consistent across links (whether ddx, das, or whatever)
        - This will not work because there are multiple kinds of metadata (ddx is XML and others are text plain)
    - If the OPeNDAP link only gives an error message, there should be a preferred link for clients that don't speak OPeNDAP
        - If the rel="enclosure" you will get the whole file, if the rel="describedBy" you will get the OPeNDAP error response
    - Need to standardize the rel for DCP-4 (Chris suggests rel="service" for OPeNDAP)
        - rel="service" is used in other ways for Atom, so we'd be repurposing it

- This all derives from one of the limitations of DAP2 (because of differences in server configuration)
- Atom spec would suggest the use of rel="alternate"
  - "alternate" means a different representation of the metadata, not the resource itself
- Should we be using a "length" attribute for rel="enclosure"?
- Do we really need to worry so much about the rel attribute (will an arbitrary Atom client)
- We should use the HTML OPeNDAP page as a "landing page"?
  - This works well with a browser, but not so well with OPeNDAP clients (need to provide the endpoint URL somehow)
- Put a length attribute in an example
  - For HDF files, we can add the length attribute; for NetCDF file, this probably will not be possible
- Don't include metadata responses because OPeNDAP clients will know how to get that...
- DCP-6
  - Only a few hours left to comment
  - OGC will be following the same standard!
  - Brian wanted to extend the Query tag to tell you what the XML tags will be in the responses
    - and will try to make progress on this later (through the custom parameters DCP)
- DCP-7
  - Using codes from the HTTP/1.1 spec
  - for OpenSearch requests with invalid request parameters
    - return 400 Bad Request with appropriate error message.
    - do not return successfully and rely on OpenSearch <Query> element to repeat the valid parameters.
    - users need to know if any of their request parameters are not used in the constraint search.
  - follow the HTTP error message handling spec that comes with the status codes.
    - For an invalid OpenSearch request with unrecognized parameter field(s), it should result in a 400 Bad Request with error essage. Do not return successfully and rely on OpenSearch <Query> element to repeat the valid parameters. Users need to know if any of their request parameters are not used in the constraint search.
  - Always have well-formed response with mime-type, but do not use Atom responses for bad requests.
    - We decided not to embed the error messages in Atom's content tag
  - Detailed error message is almost always read by a human (we should only use text/plain or text/html errors)
  - 403 Forbidden: for security reasons, might not want to explain the reason why.
  - 502 Bad Gateway: for security reasons, might not want to explain the reason why.

Planning for ESIP Summer Meeting

Discovery Testbed

"Relax NG" Validator Service

Actions:

- Chris or Hook will deprecate DCP-2 and DCP-3 on DCP page
- Brian will work on generalized version of DCP-4 (Pedro will contribute examples for WxS)
- Chris will send out Doodle poll for DCP-4
- James will update examples for DCP-4 with details and additional examples (also include all the different OPeNDAP MIME types) (also, try to use real links) (also put an example with a "length" attribute)

- All review DCP-6 if interested (only a few hours left!)
- Hook will continue to tweak DCP-7 before voting

Session Leads:

Name: Chris Lynnes [9]
Organization(s): NASA Goddard Space Flight Center [10]
Email: christopher.s.lynnes@nasa.gov [11]

Name: Hook Hua [12]
Organization(s): Jet Propulsion Lab [13]

Notes takers:

Name: Eric Rozell [14]
Organization(s): Rensselaer Polytechnic Institute [15]

Participants:

- Chris Lynnes
- Hook Hua
- Christine White (3)
- Eric Rozell
- Erin Robinson
- Brian Wilson (6)
- Pedro Goncalves
- James Gallagher (7)

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