DataLink 1.1 status

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on behalf of DataLink authors and the whole IVOA DAL Working Group

Work since May 2020 interop

- Summary of previous work given in May :

  https://wiki.ivoa.net/twiki/bin/view/IVOA/InterOpMay2020DAL#DataLink

- Long term and short term history on the DAL Wiki pages :
  https://wiki.ivoa.net/twiki/bin/view/IVOA/DataLink-1_0-Next

- Short term history on GitHub : https://github.com/ivoa-std/DataLink/

- 3 errata published (thanks to MT and MM) in June

- 3 virtual meetings

  - May 28th,

  - June 29th

  - September 2nd

  - → addressed remaining DataLink issues

- link_auth and link_authorized columns
  - Tell if an authorization is required for the link and then if the identity is authorized
  - PR prepared.
  - Also proposes something for managing optional columns

- OVERFLOW text consistent with DALI and limit stressed on the total number of ID accepted by the service
  - Can be used for batch queries
  - PR prepared.

- dataproduct_type issue :
  - Cannot be a parameter of the content_ type (media type) according to RFC
  - Propose a new optional «content_qualifier» FIELD
    - with IVOA dataproduct_type vocabulary terms
    - With other vocabulary terms in other use cases
  - PR prepared

Work since May 2020 interop

- Templating mechanism in accessURL in service descriptor
  - To tackle services (REST like) where PARAM=value interface is not enough
  - Templating based on RFC-6570 IETF
  - Example :

    ```
    <PARAM name="accessURL" datatype="char" arraysize="*"
        value="http://tapvizier.u-strasbg.fr/TAPVizieR/tap{/synOrasync}?REQUEST=doQuery"/>
    ```

  - PR prepared.

Additional issues raised

- Trey Roby : Port other Datalink FIELDS (semantics, content _qualifier) in service descriptor

- Gregory Dubois : move service descriptors to VOTable → major change

- EPN-TAP : behavior issues ?

- Issue raised earlier by Ada : a new model of link semantics/content

  - Major change
  - Can be solved by mapping strategy ?

- Others ????

What to do now ?

- Members : review and comment the 4 PR
- Authors/chairs : when PR merged publish the draft
- People raising new issues : write them on GitHUB
- Then authors/chairs to see when we integrate that in the spec
- Complete DAL wiki page
- Restart work on implementation note