DAL Running Meeting #22 - Cone Search 1.1 and 2.0

Date: 17 December 2025, 2pm UTC

Participants: Marco Molinaro (MM), Markus Demleitner (MD), Gilles Landais (GL), Mark Taylor (MT), Renaud Savalle (RS), Grégory Mantelet (GM), Tess Jaffe (TJ), Sara Bertocco (SB), James Tocknell (JT)

Notes

- Main Marco's question: should we go on with SCS-1.1 or wait for 2.0?
  - [Grégory] Think that we should go on with 1.1 as this version will be ready way before 2.0. SCS-1.1 will actually be useful to fix the current implementations (in the point of view of validators) and to align them with DALI.
  - [Markus] According to the transition plan: service providers should implement both version: 1.1 and 2.0.
- [Marco] What is left to do in SCS-1.1?
  - Mainly the OpenAPI document
  - There's still the question of the time axis. Is it still sensible to work on it? In 1.1 or 2.0?
    - *according to general discussions, probably more for 2.0*
- [Marco] Open Question: Should SCS be limited to source catalogue?
  - [Grégory] Until SCS-1.03, it was limited to source catalogues
  - [Gilles] In practice, like in VizieR (but not only), there are already Cone Search services with catalogues not delivering only sources.
- [Gilles] About the main identifier that should become unique (as proposed in 2.0), in VizieR, I will have to create a unique identifier in SCS responses, but at the time of SCS-2.0...not for 1.1. It is a long task to do that for most of VizieR catalogues.
- [Marco] Maybe to ask to the CSP:
  - How to ask to the user community what they think about the Simple Cone Search?
  - What kind of data should be found using this protocol? Only source catalogues?
  - What features are desired by the users?
- [Gilles] Feature idea for SCS-2.0:
  - One Cone Search service over multiple tables. When using this service, a parameter should specify which table to query.
  - Adding an optional *epoch* among input parameters
    - Possibly other parameters (e.g. time).
  - Add model in the output (e.g. MANGO).
- [Markus] Would like to have more help on SCS-2.0.

Free comments and questions

- [James Tocknell] I don't be able to make the meeting, but I think for SCS 2.0, given 1.x is very simple on both the client and server end, there should be some decision about where the new complexity lies (I think it should fall on the server-side, and the client side should be kept as simple as possible).

Actions

- [Marco] publish SCS-WD-1.1 on the IVOA Doc. Repository

- [IVOA] Get more people involved in SCS-2.0. For the moment, there is only Markus interacting with Gilles.

- [DAL+CSP] Collect features desired by the users. What do scientists expect from the new SCS versions?
    - Should there be an open discussion at the June IVOA Interop? Plenary session? Splinter?