

### **Christophe Arviset and Mattias Wångblad Euro-VO Registry status and plans**

- <http://registry.euro-vo.org/>
  - can use to publish resources
  - search with simple or ADQL interfaces (to be fixed)
  - Validators for SCS, SIAP, SSAP; TAP through Taplint run bimonthly. See Ops session.
  - Standalone validator, web tool and API.
  - Registry anomalies report
  - Development has been minimal lately, new contract, Mattias.
  - Renaud: one person team? Mattias: Mostly me, a few bits of others.
  - Markus: Wish list item on validators, something I can run on my end, like taplint. Validate before services go public. Mattias: should be doable.
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### **Markus Demleitner StandardsRegExt, Endorsed Notes, and why we should bother**

- Registry extension allows you to express something such as documents, specific metadata like versions, schemas, and standardKey-s. Specifically, standardIDs "ivo://..."
- Have now registered all standards.
- What about Endorsed Notes, don't currently fit in (no status code)?
  - 1. Add 'en' status value, 2. don't register ENs, or 3. use 'n/a'?
  - Markus dislikes last. Nothing \*needs\* ENs unlike standardIDs, so maybe 2?
- Other things? Broader question.
  - Options from only RECs with standardIDs through to everything in Doc repo.
  - Markus votes minimal.
- Who writes these entries?
  - So far ad hoc. Automate with ivoaTex
- Creating keys, e.g., upload methods.
  - In standard? Manage like vocabularies? Leave to standard authors? Leave it to higher ups?
  - TAPRegExt has keys for ADQL extensions. Good(bad) example. "Seemed like a good idea at the time"
  - Problem as usual human resources. Anybody? Bueller?
  - Tess: dumb question about registering notebooks. Markus: not to do with StandardsRegExt, elsewhere.
  - Markus: if you're willing to take it on, I'll hold your hand.

StandardsRegExt: a VOResource Schema Extension for Describing IVOA Standards From the title of the doc, it describes the IVOA standards. Why do you want to register "endorsed notes"? That's sort of how I felt about registering individual notebooks.

### **Markus Demleitner A New Registry API for pyVO**

- Services and data collections are not 1:1, so need new way to search
- Keyword arguments still work but nudging people to use new more expressive methods
- Now can ask for a service type for a given data resource.
- <https://blog.g-vo.org/tag/data-discovery.html>
- <https://blog.g-vo.org/media/2022/data-discovery-demo.ipynb>
- Demo shows your regsearch results have a row for a data resource which has a column listing the available services.
- A resource now has a `get_contact()`
- Can pop up the web resources in another browser window, also `reference_url`
- Adrian: can we come up with a way to rank the search results: Markus: this keeps coming up, would be good, needs thought. E.g., if you rank higher used resources higher, it's self-reinforcing, not necessarily good. Availability? Validation?

### **Tom Donaldson and Theresa Dower Discussion about pyVO and the NAVO registry**

- Learning things switching from GAVO to NAVO in pyVO: a narrative.
- Switch with environment variable is clunky; need programmatic switch.
- Fixed issue with pyvo requiring optional hard limit
- repeated queries to capabilities endpoint
- COALESCE issue with MAST. Incidentally, there's a `get_RegTAP_query()` method that you use like the `search()` function but instead of sending the query, it shows you the ADQL it constructed.
- When to have future features in PyVO? E.g., COALESCE not required until 1.2 (draft)
  - important to exercise it early
  - but can break interop
- Found a misconfiguration in MAST side
- UNION required or no? Not clear
- Markus: change didn't work without COALESCE, apologies. UNION another.
- Adrian: prototype feature in pyvo for new features in RegTAP 1.2? Tom: Right, goal was to distinguish compliant code from things under development. This is an interesting case because its all happening behind the scenes; nothing visible to the user, but what ADQL is doing.
- Markus: UNION came from multiple keywords, and ALL confuses some of them. But file a bug, pyVO can use ALL until UNION is supported.
- Adrian: again, prototype decorator. Tom: maybe?