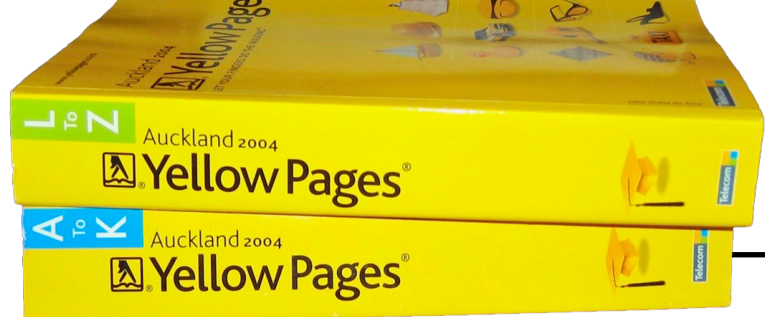




Registry Working Group - IVOA InterOp Nov 2025 Görlitz



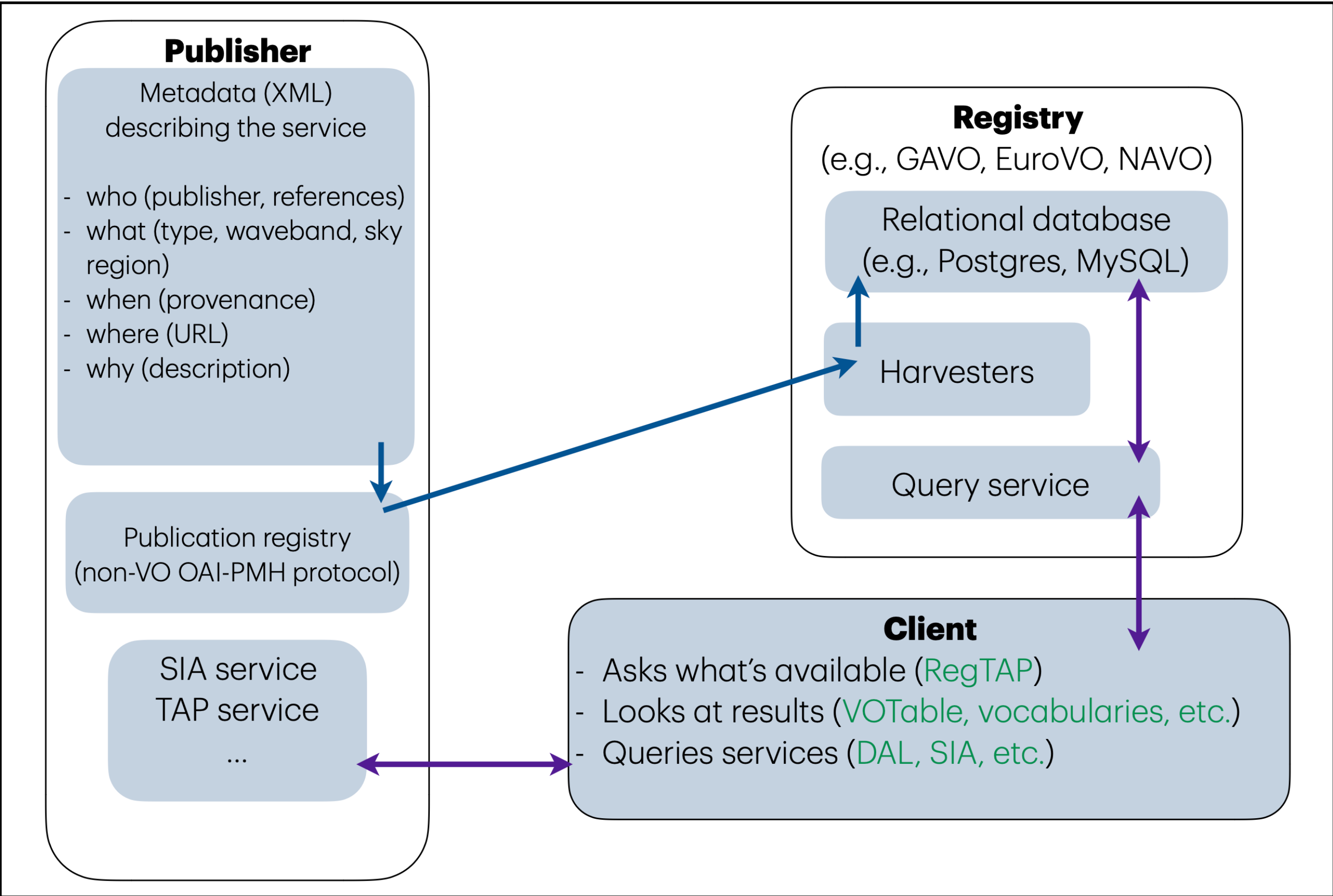
Chairs: Renaud Savalle (PADC/Obs Paris) and Tess Jaffe (NASA GSFC)

Slack: [#registry](https://ivoa.slack.com)

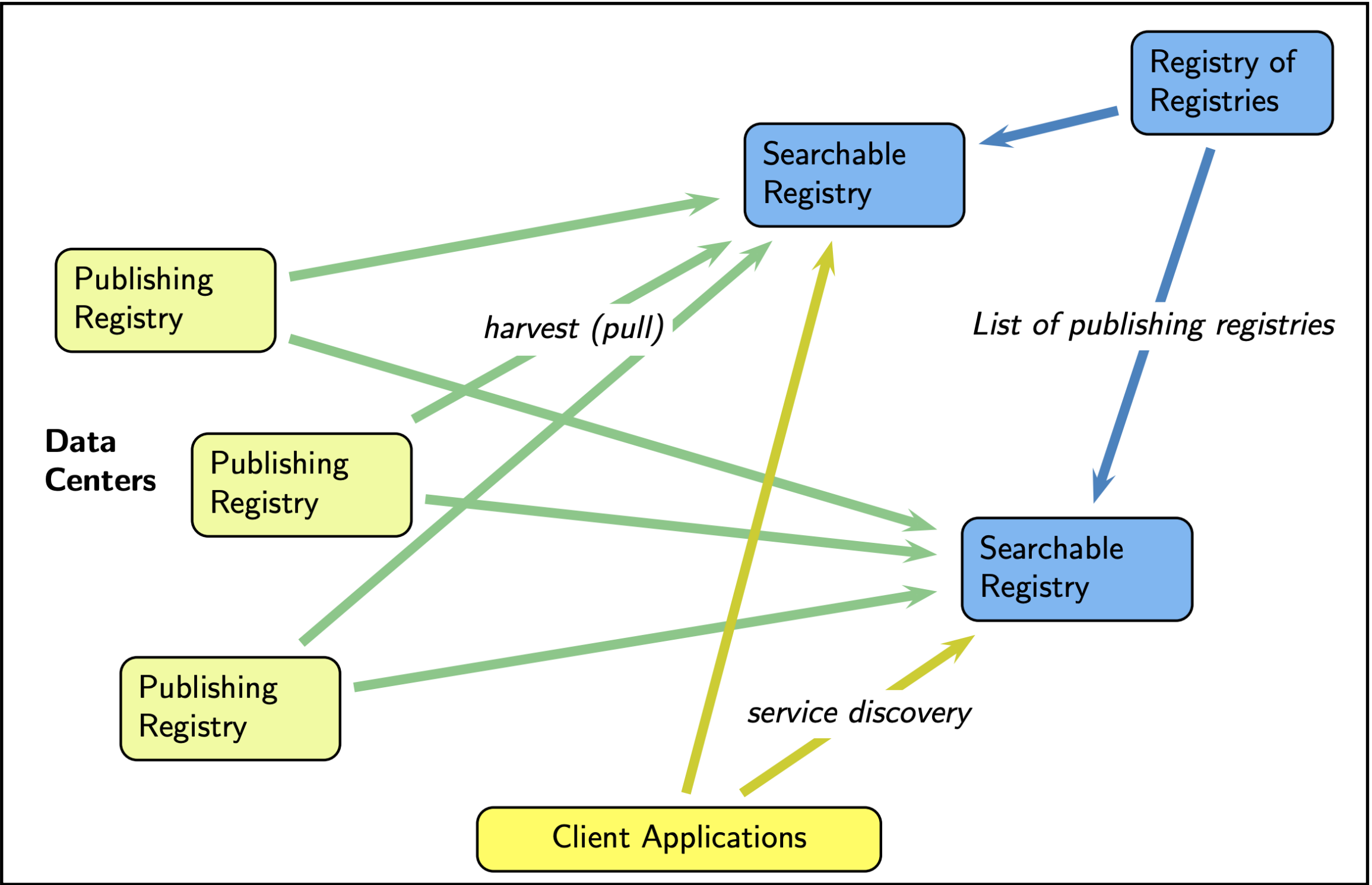
Goal: Enable data providers to publish, and users to discover VO resources (services, data collections...) using constraints (ex: service type, keywords, sky coverage...)

Mailing list: registry@ivoa.net

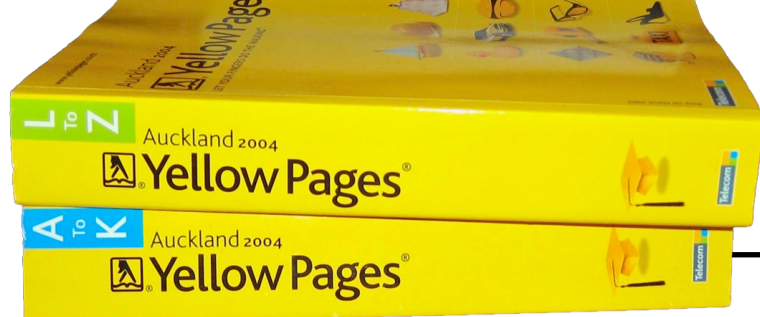
How: Define standards for publishing resources, Harvest + Consolidate them, Validate them. Build discovery interfaces



The Big Picture - Credit: Tess Jaffe



The Registry Ecosystem - Credit: Markus Demleitner in Demleitner et al. 2014A&C.....7..101D



Main Standards and Schemas

➔ For publishers

- **VOResource**: common data model for all VO resources
- **VODataService**: extends VOResource to define specialized types for describing services, data collections, tables
- VOResource Schema extensions (**TAPRegExt**, **SimpleDALRegExt**, **StandardsRegExt**, **DocRegExt**, ...)
- Controlled vocabularies maintained by the Semantics WG (ex: Data Product Type, Relationship types...)

➔ For discovery clients

- **RegTAP+ADQL**: query data collections and services...

Key activities from 2025ARoadmap

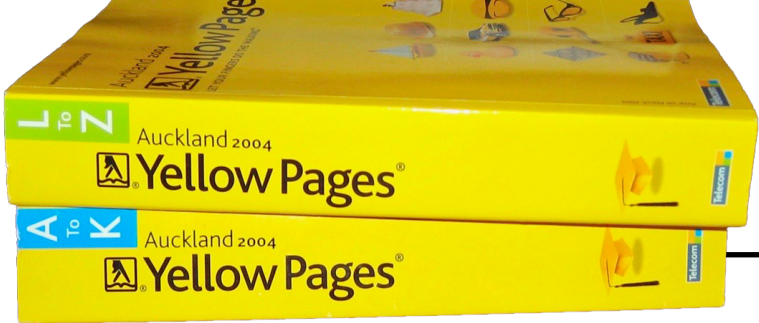
1. New: **DocRegExt**: a VOResource extension for registering documents useful for teaching and learning the Virtual Observatory (they can be linked to existing resources)
2. Improve “**all VO**” **discovery workflows** through:
 - supporting **pyvo.registry** search interface and working on global discovery
 - consistent Registry practices by providers in general (BTW: have you filled your resource’s sky coverage?)
3. Pursue Registry WG + Edu IG’s “**onboarding**” **initiative** to help data publishers register their services
4. Continuously curate and validate the Registry (yearly Spring Cleaning)
5. Investigate discovery of Simulated Data in VO Services/Collections

Latest Documents:

- RegTAP-1.2 **REC**
- VOResource-1.2 **REC**
- StandardsRegExt-1.1 **REC**
- DocRegExt-1.0 **RFC**
- VODataService-1.3 **WD**

Interested ? Please attend:

DAL & Registry Joint Session: Friday November 14, 2025 @14:00-15:30 CET (Session #3) Room Nadir



Registry Working Group - IVOA InterOp Nov 2025 Görlitz



DAL & Registry Joint Session: Friday November 14, 2025 @14:00-15:30 CET (Session #3) Room Nadir

Speaker	Title and Abstract	Materials	Time
Markus Demleitner (GAVO)	Simple Cone Search 2 and Transitioning To It I will report on my plans for making the venerable cone search DALI -compliant: What can stay, what has to change, and what new features we might cheaply get on top. An important part of this endeavour is working out how to get to an SCS2 world from the current VO with minimal disruptions. I will show a plan and an optimistic scenario for that.		10+5 mins
Markus Demleitner (GAVO)	Finally: Towards TAPRegExt 1.1 TAPRegExt has had a rather clearly defined deficiency for several years: Its use of a vs:ParamHTTP-typed interface. Still, the standard sat idle. Now, thanks to a requirement to declare per-mode (sync/async) limits, there is renewed interest in it. I will discuss two proposals to address that later issue, and remind you of a plan to address the Interface Problem (also known as caproles).		10+5 mins
Erik Mellegård (ESA)	The Euro-VO Registry is adding validation support for the Object Observability Simple Access Protocol The Object Observability Simple Access Protocol is progressing toward recommended status. To support the development of compliant implementations, ESA has extended its service validation framework to include a validator for this protocol. This short presentation introduces the new Object Observability validator, accessible through the Euro-VO Registry web interface as well as through the API. A brief demonstration will showcase the validator's functionality against current services and discuss how data providers can use this resource when implementing new Object Observability endpoints.	PDF	10+5 mins
Paul Harrison (UKSRC/JBO)	Registry Ideas Having recently developed a new minimal publishing registry implementation the author has a testbed for new ideas. These include • trialing an interface that is somewhere between OAi-PMH and RegTAP that is easier for web clients to use. • adding new content types to the registry data model - .e.g. Observatories, Telescopes - i.e. extracting ProposalIDM The purpose of the talk is to promote some discussion on some "bigger picture" ideas for the future of the registry.		10+5 mins
Hendrik Heintl (GAVO)	Simulations in the registry Abstract TBC		10+5 mins
All	Discussion		15 mins