Registry Working Group - IVOA InterOp May 2023 Bologna

Slack: ivoa.slack.com #registry

Mailing list: registry@ivoa.net

Organization: Chair: Renaud Savalle, Vice-Chair: Tess Jaffe

Goal ? Enable data providers to publish, and users to find VO resources (services etc) by constraints (ex: service type, keywords, coverage etc.)

How ? Harvest (OAI-PMH) + Consolidate (RegTAP) + Validate resources. Build discovery interfaces

Review Article (2014) "The virtual observatory registry" by Demleitner et al. 2014A&C…..7..101D

Main Standards:
- **Publication** VOResource XML Schema + *RegExt add-ons
- **Discovery**: RegTAP+ADQL + controlled vocabularies maintained by Semantics WG

Latest WD Documents
- VOResource-1.2
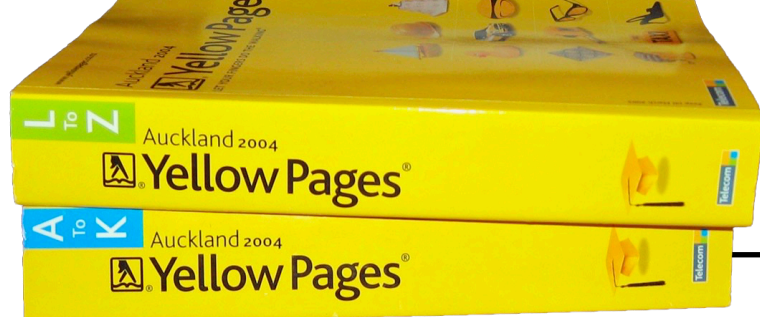- StandardsRegExt-1.1
- DocRegExt-1.0 NEW
- RegTap-1.2

Roadmap
- Coordinate with Operations IG for curation and validation efforts (reg. maintainers, data curators, services providers, validators)
- Maintain IVOA documentation (standards with StandardsRegExt, tutorials with DocRegExt…) in the Registry
- Continue implementing new simplified data discovery options with pyvo.registry.search
- Include authoring data to improve automatic citation, in coordination with DCP IG : Joint Session and "Data Origin in the VO" Note
- Develop space (MOC), time, freq coverage for publishing and discovery cf VODataService-1.2 and RegTAP-1.2
- Operate and curate the Registry, communicate with providers for problem solving
- Help other WGs/IGs register their standards and services, discover their data

Interested ? Please attend our Sessions:
1. **Registry Session - Tuesday May 09 2023 @14:00 CEST: Room 216 and online (Session 7)**
2. **Registry/DCP Joint Session - Wednesday May 10 @09:00 CEST: Plenary room and online (Session 9)**
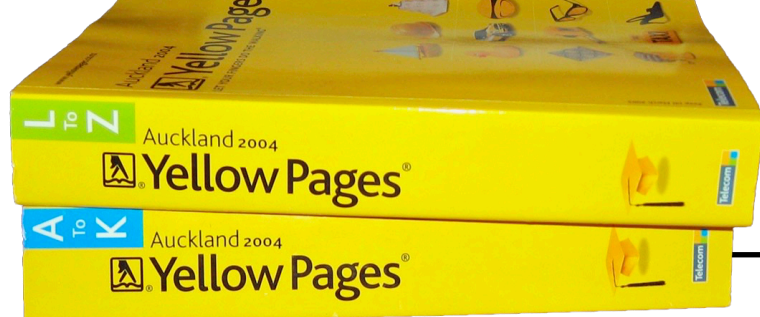
v1.0

Registry Session - Tuesday May 09 2023 @14:00 CEST: Room 216 and online (Session 7)

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Speaker	**Title**	**Time**	**Abstract**	**Material**
Hendrik Heinl	Time Series in the VO -- how to be not seen	8+2	"Where do I find TESS lightcurves in the VO?" seemed an easy question to Ada and me, when we started out. Little did we know about the many unexpected obstacles we ran into. Here I present the different obstacles user face, quick and dirty temporary solutions, and suggest a solution.	
Markus Demleitner	Confessions of a Registry Janitor	15+5	Making a registry record that passes the validator is just the first step to become a well-findable part of the Virtual Observatory. In this talk, I will tell you what sets a **good** registry record apart from one that just barely works – and why that matters.	
Markus Demleitner	VOResource-1.2 - new features	15+5	VOResource 1.2 will be a rather minor update to the VO's basic metadata format. Still, in particular the integration of non-VO identifier schemes has some subtleties. This talk will briefly discuss the changes proposed in the current working draft and let you weigh in on them.	
Renaud Savalle	StandardRegExt -1.1	8+2	Update on the registry extension to register IVOA standards	
All	General Discussion	30	Please share topics you'd like to raise on the Slack #registry channel or on the registry mailing list	

Topics for discussion:

- Deprecate Registry Registry Interface 1.0 client search functionality
- Bring RegTAP query implementations up-to-date (MOC usage in ADQL geometric queries)
- Curation and validation of the Registry

Registry/DCP Joint Session - Wednesday May 10 @09:00 CEST: Plenary room and online (Session 9)

Wednesday May 10 @09:00 CEST: Plenary room and online				
Speaker	**Title**	**Time**	**Abstract**	**Material**
S.Derriere	Description of HiPS surveys in the IVOA registry	10+5	There are now more than 1200 HiPS surveys available in the VO ecosystem. The management of metadata, data distribution and replication is done by 20 HiPS servers, but most of the individual HiPS (sky or planetary surveys, catalogues, cubes, ...) are not registered in the IVOA registry at present. We present the addition of the CDS HiPS collection into our publishing registry. The choices that have been made to populate the different metadata elements, and the pipeline that will allow the newly generated HiPS to be published in the VO Registry.	
G.Landais	Data Origin in the VO	10+5	Basic provenance applied to data provided in the VO (registry) and in VOTable in order to trace origin, to facilitate citation and reproducibility.	
M.Demleitner	DOIs for everyone in the VO: VOiDOI	8+2	VOiDOI is a service that mints DOIs for VO registry records. With that, data providers who cannot otherwise easily mint DOIs can quickly improve the citability of their VO-enabled data holdings.	
H.Enke (remote)	Provining metdata in DataCite and in IVOA	8+2	(to define)	
Y.Tao	(to define) the NADC implementation of DOI	8+2	NADC is the National Astronomical Data Center of China. This talk will introduce the data resources and implementation of DOI in NADC, including the strategy and procedure to mint DOI for different types of datasets, such as observation dataset (data release) and paper-related data. Also, DOI will be discussed in relation to a similar PID system, the China Science & Technology Resource identifier (CSTR).	
R.D'Abrusco	A Chandra-centric approach to DOIs	8+2	The Chandra Data Archive (CDA) has been preparing for the adoption of Digital Objects Identifiers (DOIs) as its data Persistent Identifiers since 2018, and started to mint DOIs for archival observations in 2020. Since then, the CDA DOIs strategy has evolved to include additional Chandra data entities and new services to better cater to our community's needs. In this talk, I will briefly describe the basic principles inspiring the Chandra DOI philosophy, and will provide updates on our work on DOIs.	
Christophe Arviset	ESA Data Discovery Portal, link to ESA datasets DOIs and to Google Dataset Search.	8+2	DOIs have been minted for almost all ESA Space Science datasets, using different level of granularity depending of the mission type (astronomy survey or observations missions, planetary missions and heliophysics missions). The recently released ESA Data Discovery Portal now provides a unified entry portal to all ESA datasets from all disciplines (Space Science, Earth Science, Human and Robotic Exploration and Navigation), with link to all corresponding DOIs. Furthermore, minting these DOIs also enables their reference in the Google Dataset Search interface.	
Discussion				