

Fig. 1



Fig. 2

1. Towards RegTAP 1.1

(cf. Fig. 1)

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(cf. Fig. 2)

- What this is about
- an alt_identifier table
- a standard_key table
- new interface.mirror_url
- per-capability testQueryString in res_details
- rights, rightsURL in res_details

What this is about

VOResource 1.1 is around the corner with $\frac{3}{2}$ pages of changelog.

RegTAP, as the common "user interface" to VOResource, has to catch up.

Fortunately, RegTAP doesn't notice most of the changes, as they mainly concern clarifications, vocabulary changes, type refinements, etc., which don't show in the database.

Background: To keep the schema manageable, we've traditionally done a manual mapping of VOResource to a relational model. In some extreme cases, we've even restricted what's expressible in RegTAP vs. what VOResource lets people do. This tactic has so far served us well.

So, this is about finding workable compromises.

Also, this is about providing implementation experience for VOResource RFC.

You're not supposed to read this:

(cf. Fig. 3)

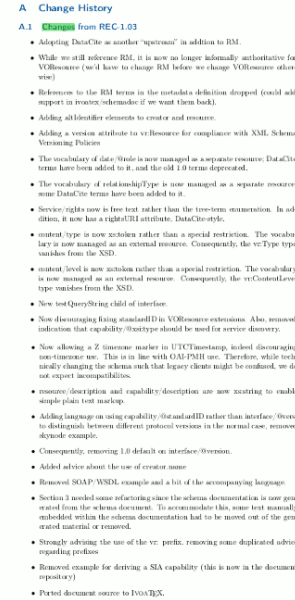


Fig. 3

3. New alt_identifier Table

ivoid	alt_identifier
ivo://ex/res1	orcid:0000-0000-0000-000X
ivo://ex/res1	orcid:0000-0000-0000-001V
ivo://ex/res1	doi:10.5072/ex/res1
ivo://other/q	doi:10.5072/hurgl

But: No way to work out what *role* the referenced entity plays wrt the resource.

On the other hand: Currently evident from alt_identifier type.

Alternative: Add role column?

4. New standard_key Table

ivoid	key_name	key_description
ivo://ivoa.net/std/regtap	table-1.0	The data model for...
ivo://gavo/std/example	vodml-prefix	foo
ivo://gavo/std/example	vodml-dmuri	http://.../vodml/foo-1
ivo://gavo/std/example	vodml-prefix	bar
ivo://gavo/std/example	vodml-dmuri	http://.../vodml/bar-1

StandardKeys come from StandardsRegExt and are intended for term enumerations coming with standards. These days, they're mostly used to tell various versions of a standard from each other (e.g., query-1.0 vs. query-1.1).

DM has a use case for discovery on StandardKeys. This table is a straight mapping, but the DM use case is a bit of a shortcut to their real problem.

Alternative: Keep it unmapped, tell DM to define their own table.

5. Mirror URLs

In `rr.interface`:

primary key	...	mirror_url
ivo://id1, 1, 1	...	spiegel.de/svc#mirror.us/svc#spajel.in/svc-m
ivo://id1, 1, 2	...	mirror.br/extra#extra.fr/extra
ivo://id1, 1, 1	...	NULL

Yes, array simulation sucks. But it's safe here, since there's no way `#` can be part of an access URL.

Alternatives: (a) Extra `rr.mirrors` table (yikes!); (b) support for arrays for var-length strings in `VOTable`.

6. interface/testQueryString

ivoid	capid	detail_xpath	detail_value
ivo://ex/res1	1	/cap/intf/testQueryString	RA=23&DEC=42&SR=1
ivo://ex/res1	1	/cap/intf/testQueryString	POS=CIRCLE 23 42 1

Problem: `testQueryString` is per-interface, but `res_details` is per capability at best. In practice, this should be less of a problem than it sounds, because, really, we now have one standard per capability, and thus query strings shouldn't differ between the interfaces of a capability.

Alternatives: (a) extra `test_query_string` table with an `rr.interface` FK (yikes!); (b) make `testQueryString` a singleton in `VOResource` (might be a good idea anyway) and add a column to the interface table.

7. rights, rightsURI

ivoid	detail_xpath	detail_value
ivo://.../hsoy/	/rights/@rightsURI	http://cc.org/publicdomain/zero/
ivo://.../hsoy/	/rights	Licensed under CC-0

RegTAP 1.0 has `rr.resource.rights` as hash-separated list.

`VOResource 1.1` has free-text rights and `rights/@rightsURI`, so hash separation doesn't work any more.

Minor (because existing rights isn't terribly useful and thus hasn't been used to my knowledge) incompatible change: I've taken out `resource.rights`, `rights` and `rightsURI` now in `res_details`.

Alternatives: keep `resource.rights` but deprecate it and fill with `NULL`.

8. Kind Requests in Parting

- Ponder over changes and alternatives discussed here
- Use new `VOResource` features in your registry records
- Review early in upcoming `VOResource` RFC

Thanks!