



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, rightsURI 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 tranditionally 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)

- A Change History
- A.1 Changes from REC-1.03 Adopting DataCite as another "upstream" in addition to RM.
- While we still reference RM, it is now no longer informally authoritative for VOResource (we'd have to change RM before we change VOResource otherwise).
- References to the RM terms in the metadata definition dropped (could add support in ivostex/schemadoc if we want them back).
- Adding all Identifier elements to creater and resource.
- Adding a version attribute to vr.Resource for compliance with XML Schema Versioning Policies
- The vocabulary of date/@role is now managed as a separate resource; DataCite terms have been added to it, and the old 1.0 terms deprecated.
- The vorabulary of relationshipType is now managed as a separate resource, some DataCite terms have been added to it.
- Service/rights now is free text rather than the tree-term enumeration. In addition, it now has a right-uRI attribute. DataCite-style.
- content/type is now x-clolen rather than a special restriction. The vocabu-lary is now managed as an external resource. Consequently, the vr.Type type vanishes from the XSD.
- New test Oners String child of interface.
- Now discouraging fixing standardID in VOResource extensions. Also, removed indication that capability/@sxitype should be used for service discovery.
- Now allowing a Z timezone marker in UTCTimestamp, indeed discouraging non-timezone use. This is in line with OAI-PMH use. Therefore, while tech-nically changing the schema such that legacy clients might be confused, we do not expect incompatibilities.
- resource/description and capability/description are now xxstring to enable simple plain text markup.
- Adding language on using capability/fist.and.ardID rather than interface/fiversion
  to distinguish between different protocol versions in the normal case, removed
  skymote example.
- Consequently, removing 1.0 default on interface/@yersion
- Added advice about the use of creator name.
- Removed SOAP/WSDL example and a bit of the accompanying language.
- Strongly advising the use of the vr. prefix, removing some duplicated advice
- Removed example for deriving a SIA capability (this is now in the document
- Ported document source to IVOATEX.

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:

mirror_ur	***	primary key
spiegel.de/svc#mirror.us/svc#spaijel.in/svc-m		ivo://id1, 1, 1
mirror.br/extra#extra.fr/extra		ivo://id1, 1, 2
NULI		ivo://id1. 1. 1

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

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.

 $VOR esource \ 1.1 \ has \ free-text \ rights \ and \ rights/@rightsURI, so \ hash \ separation \ doesn't \ work \ any more$ 

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!