What's new in VOResource 1.2?

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What's new in VOResource 1.2

- altIdentifier almost everywhere
- You can have DOIs instead of bibcodes in content/source now
- Your subjects shall be lowercase-with-dashes
- Please use SPDX rights URIs
- Ah: no funny referencesURLs, either.

I'll not say any more on the funny referenceURLs here; the change was a consequence of trouble when exporting our records to something DataCite-based and does not concern any existing record, because we have manually asked everyone concerned to fix their records.

altIdentifier almost everywhere

In VOResource 1.1, Resource and creator got altIdentifier element children.

But then: we want DOIs for the *relatedResource* (e.g., DerivedFrom some non-VO resource).

But: relatedResource is a vr:ResourceName.

Derive a new Type or change vr:ResourceName?

Changing ResourceName

Other vr:ResourceName-typed VOResource elements include:

- contributor (orcid!)
- facility (VocInVO URI?)
- instrument (VocInVO URI?)
- managingOrg (Wikidata URI?)
- name (orcid!)
- publisher (Wikidata URI?)

For most of these, having non-VO identifiers at least seems plausible. So, let's add an @altI-dentifier to *vr:ResourceName*.

An Attribute?

Making altIdentifier an attribute limits it to one alternate Identifier.

Against that, VOResource 1.1 altIdentifiers on Resource and creator were elements: You could have multiple of them.

Why an attribute rather than an element?

- Partly aesthetic: We don't have mixed content in VOResource anywhere else
- Partly practical: 1:1 relationships make everything simpler; for instance, it'll just be extra columns in RegTAP.
- Partly pragmatic: 1:1 seemed enough for all we can forsee.

In a pinch, you could mostly use multiple container elements.

And creator/@altIdentifier?

creator/name is a vr:ResourceName, too.

Hence, there are now two ways to specify altIdentifiers for creators.

Almost nobody has used creator/altIdentifer yet. So, let's deprecate it.

DOIs as Sources

vr:Source (which gives an article the data "is for") has a @format attribute.

For that, we only had bibcode as a value.

Now, you can also write doi. Please update your link generators!

Annoying question: DOI form? Upstream DOI now wants their resolver baked in (http://doi.org/10.whatever). In *altIdentifier*, we used the URI form (doi:10.whatever).

Current proposal: No prefixing at all (as with bibcode), i.e., "10.whatever".

We will have an internal consistency problem regardless of what we do: If we write doi:10.whatever, we will be consistent with with altIdentifier but not with bibcode-values source. With the current proposal, we will be inconsistent between bibode- and doi-valued sources. If we bake in the resolver (which I consider an odious practice), we are inconsistent with both. I tried to pick the least evil.

UAT Subjects

The original reason for VOResource 1.2: content/subject SHOULD now use UAT terms in the form of fragment identifiers for http://www.g-vo.org/rdf/uat.

That's stuff like amorphous-irregular-galaxies.

Please update your resource records!

As to the rationale, see Demleitner and Frey (2022).

SPDX License URIs

Since VOResource 1.1, we had *rights/@rightsURI* to machine-readably declare legal usage constraints.

To enable queries like "only give me CC-BY and CC0 data", we need a common set of URIs so everyone uses the same string for a given licence.

That's now SPDX; pick your URI from https://spdx.org/licenses/.

If you ask me: https://spdx.org/licenses/CC0-1.0.html is all you need.

Go Forth...

...and implement!

The more "reference usage" we have for PR, the less likely it is that we have missed something. Thanks!

References

Demleitner, M. and Frey, K. (2022), 'Adopting the UAT as an IVOA vocabulary Version 1.0', IVOA Endorsed Note 22 July 2022. doi:10.5479/ADS/bib/2022ivoa.spec.0722D, https://ui.adsabs.harvard.edu/abs/2022ivoa.spec.0722D.