



Fig. 1



Fig. 2



Fig. 3

## 1. Get a DOI using voidoi

(cf. Fig. 1)

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(cf. Fig. 2)

- Why get a DOI for a VO resource?
- The citation info in VOTable
- Get a DOI
- The landing page

(cf. Fig. 3)

The following names for *INFO* elements should be used if applicable, but this list is not definitive.

Info Name	Value Interpretation
standardID	IVOA standardID for the service specification
publication	Reference to a publication that can/shoud be referenced if the result is used

Fig. 4

## 2. Why get a DOI?

In a word: Citability.

I am concerned with citing *services* here

[not: datasets; voidoi can't do those].

In particular, this is for services that either have no properly citable resource accompanying it – perhaps because it's work in progress and the final report is years in the future – or that combine data from lots of papers; in my data center, TOSS is an example for the second sort; for such resource, citing papers isn't really an option.

Here's a BibTeX record for a table I'm publishing:

```

@MISC{vo:gdr2mock_main,
  year=2018,
  title={A Gaia DR2 mock stellar catalog},
  author={Rybizki, J. and Demleitner, M. and Fouesneau, M.
    and Bailer-Jones, C. and Rix, H.-W. and Andrae, R.},
  url={http://dc.zah.uni-heidelberg.de/tableinfo/gdr2mock.main},
  howpublished={VO} resource provided by the {GAVO} Data Center},
  doi = {10.21938/SYx.JVejuu66uzDiLcFR1A}
}

```

## 3. DALI citation FTW

How do users figure out where to get the BibTeX? DALI 1.1:

(cf. Fig. 4)

Run `SELECT TOP 3 * FROM gdr2mock.main` on  
`http://dc.g-vo.org/tap:`

```

<INFO name="citation" ucd="meta.bib.bibcode"
  value="2018arXiv180401427R">...</INFO>
<INFO name="citation" ucd="meta.bib"
  value="http://dc.zah.uni-heidelberg.de/tableinfo/gdr2mock.main">...

```



Fig. 5

Subject: Your DOI Registration  
X-Mailer: DaCHS VO Server

Hello,

Someone (hopefully you) asked for a DOI to be created for the Virtual Observatory resource `ivo://org.gavo.dc/arighf/katkat/q` with the title ARI Catalog of Catalogs.

You are listed as the contact person for that resource in the VO registry. If you agree that a DOI should be created for your resource, go to the following URL:

<http://dc.zah.uni-heidelberg.de/voidoi/q/ui/custom/confirm/a840f9e89e0d1608ef9329b60385cf3e>

If you did not ask for a DOI, apologies. DO NOT retrieve the above link unless you know what you are doing. The creation of a DOI is IRREVERSIBLE (at least a tombstone will always remain).

Fig. 6

## 4. From VOR to DOI

If you have a properly registered service, it's easy to get a DOI:

<http://dc.g-vo.org/voidoi/q/ui>

*Technically*, it's a DOI for the registry record – but we don't tell RRs and services apart in the VO.

So, enter the URI of your registry record (your `ivo`):

(cf. Fig. 5)

This will validate the resource record and complain if there's something wrong with it. If all is well, it will send a mail to the contact person given in the registry record (you do give a good contact address, do you?).

## 5. You Got Mail

(cf. Fig. 6)

DOI minting is a serious business!



Fig. 7



Fig. 8

## 6. Mint the DOI

(cf. Fig. 7)

(cf. Fig. 8)

## 7. Your Landing Page

An important part of the DOI system is that, from now on,

[http://dx.doi.org/10.21938/8ndTne3ode\\_RC4dOw3oAsQ](http://dx.doi.org/10.21938/8ndTne3ode_RC4dOw3oAsQ)

should end up on a page that either

- points you to ways to use the resource or
- tells you what happened to it ("tombstone")

For the latter use case: VOResource has the *Continues* relationship that hopefully will let us create forwards...

## 8. Reuse, Contribute

If you have VOResource metadata and need to build DOI records and landing pages *without* `voidoi`, don't miss

<https://volute.g-vo.org/svn/trunk/projects/registry/does/>

– it has almost all the XSL you'll need for that.

Thanks!