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1. Touch TAPRegExt

(cf. Fig. 1)

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(cf. Fig. 2)

(cf. Fig. 3)

This is the problem we're trying to solve: There's quite a few tables searchable by TAP talking about red dwarfs. However, there's nothing in the registry that lets you find them.

2. Proposed Solution

After much experimenting, we came up with this pattern:

- capability/@standardId ivo://ivoa.net/std/tap: Look for those if you want to enumerate all TAP services (for validation, all-VO searches, DM discovery...)
- capability/@standardId ivo://ivoa.net/std/tap#sync-1.0-aux: These just give an access URL, a single service may have thousands of those

3. Does it work?

Sure. (We're just using aux as fragment identifier yet, but that's a detail).

GAVO's DC already puts out aux records, and NVO Validation has learned to ignore them (enumerate-all use case)

In WIRR (http://dc.g-vo.org/WIRR), you'll find something if you look for TAP services about "neutrinos", and you can send the TAP access URL to TOPCAT (the find-single use case).

4. But - VizieR?

to each of the Cone Search records they're already putting out (plus probably another for async, if we follow this pattern).

If they want to be fancy, they'll set a served-by relationship to their TAP record, too.

5. Have a main rec?

Should VOResource get an AuxCapability type for such capabilities?

Should that type have a mainRecord child with the IVORN of a record having the "full" capability?

[My take: not much more useful than just setting a relationship]

6. Extra trouble for TAP

In services with 100+ tables, being sent to the endpoint may not be enough -

The client may want to "open" the table in question, too.

Good news: No extra Registry features necessary – clients can discover the table from the record's tableset element.

(Almost, at least. VODataService isn't as clear as TAP yet on having query-ready table names in tableset, and that's what clients would need – but that needs to be fixed in VODataService, and it needs to be fixed anyway)

7. Left to be done

- · Write a note to explain the principle?
- Add a section to TAPRegExt 1.1 discussing #aux capabilities
- Teach clients to search for capid
- Update Registry extensions for SIA, SSA, Cone Search, too

Should I finally go ahead?