

Fig. 1



Fig. 2



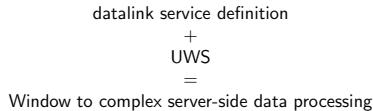
Fig. 3

1. Async “AccessData”

(cf. Fig. 1)

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(cf. Fig. 2)



This is a brief report on an experiment to see what it takes to let my “AccessData” (server-side data processing) services work asynchronously. Turns out, not much on the spec side; what needs to be defined is:

- Async service discovery
- UWS details

(cf. Fig. 3)

2. Discovery in Datalink

Declare together with sync endpoint?

- + no repetition of metadata when parameters are identical (as in TAP)
 - either all AD services have to support async or there'd need to be some fancy technique to sense async capabilities
- ⇒ make async separate service in datalink definition. StandardIDs tell clients how to talk to them.

3. Datalink Example

```

<RESOURCE ID="apptmeh" type="meta" utype="adhoc:service">
  <GROUP name="input">
    <PARAM datatype="float" name="DEC_MIN"
      ucd="par:min;pos.eq.dec" unit="deg" value="">
      <DESCRIPTION>The latitude coordinate, lower limit</DESCRIPTION>
      <VALUES>
        <MIN value="15.9438963186"/>
        <MAX value="15.9638963473"/>...
    <PARAM datatype="float" name="DEC_MAX"
      ucd="par:max;pos.eq.dec" unit="deg" value="">...
    <PARAM arraysizes="*" datatype="char" name="standardID"
      value="ivo://ivoa.net/std/SSDP#sync"/>

```

```

<RESOURCE ID="apptmel" type="meta" utype="adhoc:service">...
  <PARAM arraysizes="*" datatype="char" name="standardID"
    value="ivo://ivoa.net/std/SSDP#async"/>

```

Full record¹

Known bug alert: The published service currently produces identical IDs for the two service declarations. A fix is being brought online RSN.

4. Service Operation

No excitement, plain UWS just works.

For want of an actual client, try

```

curl -L \
  -F ID="ivo://org.gavo.dc/~?califa/datadr2/UGC12519.V500.rscube.fits" \
  -F LAMBDA_MIN=3.8e-07 -F LAMBDA_MAX=3.801e-7 \
  http://dc.zah.uni-heidelberg.de/califa/q2/dl/dlasync

```

(you can operate the job with your browser from
<http://dc.g-vo.org/califa/q2/dl/dlasync>).