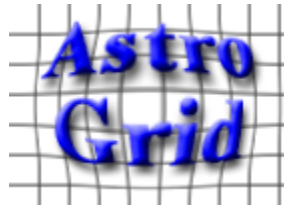


The Registry

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Registry Location



- Full registry at Leicester:

<http://hydra.star.le.ac.uk:8080/astrogrid-registry/>

- To interact with it:

user: ***demo***

pwd: ***demo***

```
<VODescription
  xmlns="http://www.ivoa.net/xml/VOResource/v0.9"
  xmlns:vr="http://www.ivoa.net/xml/VOResource/v0.9"
  xmlns:vc="http://www.ivoa.net/xml/VOCommunity/v0.2"
  xmlns:vg="http://www.ivoa.net/xml/VORegistry/v0.2"
  xmlns:vs="http://www.ivoa.net/xml/VODataService/v0.4"
  xmlns:vt="http://www.ivoa.net/xml/VOTable/v0.1"
  xmlns:cs="http://www.ivoa.net/xml/ConeSearch/v0.2"
  xmlns:sia="http://www.ivoa.net/xml/SIA/v0.6"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.ivoa.net/xml/VOResource/v0.9
    http://www.ivoa.net/xml/VOResource/VOResource-v0.9.xsd
    http://www.ivoa.net/xml/VOCommunity/v0.2
    http://www.ivoa.net/xml/VOCommunity/VOCommunity-v0.2.xsd
    http://www.ivoa.net/xml/VORegistry/v0.2
    http://www.ivoa.net/xml/VORegistry/VORegistry-v0.2.xsd
    http://www.ivoa.net/xml/ConeSearch/v0.2
    http://www.ivoa.net/xml/ConeSearch/ConeSearch-v0.2.xsd
    http://www.ivoa.net/xml/SIA/v0.6
    http://www.ivoa.net/xml/SIA/SIA-v0.6.xsd">
  <vr:Resource xsi:type="AuthorityType" updated="2004-10-10T22:12:68Z" status="active" >
    <Identifier>
      <AuthorityID>eso.org</AuthorityID>
      <ResourceKey>esovo</ResourceKey>
    </Identifier>
```

AuthorityID (2)

```
<Title>European Southern Observatory Authority</Title>
<ShortName>ESO-VO</ShortName>
<Subject>Images</Subject>
<Summary>
  <Description>
    This authority ID will be used to serve data from archives at the European
    Southern Observatory (ESO)
  </Description>
  <ReferenceURL>http://eso.org/</ReferenceURL>
</Summary>
<Curation>
  <Publisher>
    <Title>ESO Archive</Title>
  </Publisher>
  <Contact>
    <Name>Marco C. Leoni</Name>
    <Email>mleoni@eso.org</Email>
  </Contact>
  <Date>2004-10-10</Date>
</Curation>
</vr:Resource>
</VODescription>
```

Xquery – Select an AuthorityID

```
declare namespace vr = "http://www.ivoa.net/xml/VOResource/v0.9";
declare namespace vc = "http://www.ivoa.net/xml/VOCommunity/v0.2";
declare namespace vg = "http://www.ivoa.net/xml/VORegistry/v0.2";
declare namespace vs = "http://www.ivoa.net/xml/VODataService/v0.4";
declare namespace vt = "http://www.ivoa.net/xml/VOTable/v0.1";
declare namespace cs = "http://www.ivoa.net/xml/ConeSearch/v0.2";
declare namespace sia = "http://www.ivoa.net/xml/SIA/v0.6";
declare namespace ag = "http://www.astrogrid.org/schema/AstrogridDataService/v0.1";
for $x in //vr:Resource
where $x/vr:Identifier/vr:AuthorityID = 'eso.org' return $x
```

```
declare namespace vr = "http://www.ivoa.net/xml/VOResource/v0.9";
declare namespace vc = "http://www.ivoa.net/xml/VOCommunity/v0.2";
declare namespace vg = "http://www.ivoa.net/xml/VORegistry/v0.2";
declare namespace vs = "http://www.ivoa.net/xml/VODataService/v0.4";
declare namespace vt = "http://www.ivoa.net/xml/VOTable/v0.1";
declare namespace cs = "http://www.ivoa.net/xml/ConeSearch/v0.2";
declare namespace sia = "http://www.ivoa.net/xml/SIA/v0.6";
declare namespace ag = "http://www.astrogrid.org/schema/AstrogridDataService/v0.1";
for $x in //vr:Resource
where $x/vr:Identifier/vr:AuthorityID = 'astrogrid.org' and
$x/vr:Identifier/vr:ResourceKey = 'Starburst99' return $x
```

Xquery – More Constraints

```
declare namespace vr = "http://www.ivoa.net/xml/VOResource/v0.9";
declare namespace vc = "http://www.ivoa.net/xml/VOCommunity/v0.2";
declare namespace vg = "http://www.ivoa.net/xml/VORegistry/v0.2";
declare namespace vs = "http://www.ivoa.net/xml/VODataService/v0.4";
declare namespace vt = "http://www.ivoa.net/xml/VOTable/v0.1";
declare namespace cs = "http://www.ivoa.net/xml/ConeSearch/v0.2";
declare namespace sia = "http://www.ivoa.net/xml/SIA/v0.6";
declare namespace ag = "http://www.astrogrid.org/schema/AstrogridDataService/v0.1";
for $x in //vr:Resource
where $x/sia:SimpleImageAccess/sia:MaxQueryRegionSize/sia:long > 11
return $x
```

Xquery – Wildcards

```
declare namespace vr = "http://www.ivoa.net/xml/VOResource/v0.9";
declare namespace vc = "http://www.ivoa.net/xml/VOCommunity/v0.2";
declare namespace vg = "http://www.ivoa.net/xml/VORegistry/v0.2";
declare namespace vs = "http://www.ivoa.net/xml/VODataService/v0.4";
declare namespace vt = "http://www.ivoa.net/xml/VOTable/v0.1";
declare namespace cs = "http://www.ivoa.net/xml/ConeSearch/v0.2";
declare namespace sia = "http://www.ivoa.net/xml/SIA/v0.6";
declare namespace ag = "http://www.astrogrid.org/schema/AstrogridDataService/v0.1";
for $x in //vr:Resource
where $x/vr:Identifier/vr:AuthorityID |= 'org.astro*gri*' return $x
```

!!!

Only the first 25 items will be returned:
some AuthorityID – e.g. CDS – have a lot of entries (10000)

Registering a new Resource

```
<VOResource>
<vr:Resource xsi:type="TabularSkyServiceType">
<vr:Identifier>
<vr:AuthorityID>astrogrid.org</vr:AuthorityID>
<vr:ResourceKey>GOODS_ESO</vr:ResourceKey>
</vr:Identifier>
<vr>Title>ESO Good</vr>Title>
<vr:Summary>
<vr>Description/>
<vr:ReferenceURL>urn://nothing</vr:ReferenceURL>
</vr:Summary>
<vr:Curation>
<vr:Publisher>
<vr>Title/>
</vr:Publisher>
<vr>Contact>
<vr>Name/>
</vr>Contact>
</vr:Curation>
<vr:Interface>
<vr:Invocation>WebService</vr:Invocation>
<vr:AccessURL>http://www.euro-vo.org/pal/services/AxisDatatervice05</vr:AccessURL>
</vr:Interface>
<Coverage/>
<Table>
<Name>goods_1</Name>
```

Registering a new Resource (2)

```
<Column>
<Name>dataset_name</Name>
<Description/>
<Unit/>
<UCD/>
</Column>
<Column>
<Name>ra</Name>
<Description>Right ascension of celestial object</Description>
<Unit>milliarcsec</Unit>
<UCD>POS_EQ_RA_MAIN</UCD>
</Column>
<Column>
<Name>dec</Name>
<Description>Declination of celestial object</Description>
<Unit>milliarcsec</Unit>
<UCD>POS_EQ_DEC</UCD>
</Column>
<Column>
<Name>class_star</Name>
<Description/>
<Unit/>
<UCD/>
</Column>
<Column>
<Name>mag_z_iso</Name>
<Description>Photometric magnitude in Z band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_Z</UCD>
</Column>
```

Registering a new Resource (3)

```
<Column>
<Name>mag_z_iso_err</Name>
<Description>Uncertainty in photometric magnitude, Z band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
<Column>
<Name>mag_z_auto</Name>
<Description>Photometric magnitude in Z band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_Z</UCD>
</Column>
<Column>
<Name>mag_z_auto_err</Name>
<Description>Uncertainty in photometric magnitude, Z band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
<Column>
<Name>mag_b_iso</Name>
<Description>Photometric magnitude in B band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_B</UCD>
</Column>
<Column>
<Name>mag_b_iso_err</Name>
<Description>Uncertainty in photometric magnitude, B band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
```

Registering a new Resource (4)

```
<Column>
<Name>mag_b_auto</Name>
<Description>Photometric magnitude in B band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_B</UCD>
</Column>
<Column>
<Name>mag_b_auto_err</Name>
<Description>Uncertainty in photometric magnitude, B band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
<Column>
<Name>mag_v_iso</Name>
<Description>Photometric magnitude in V band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_V</UCD>
</Column>
<Column>
<Name>mag_v_iso_err</Name>
<Description>Uncertainty in photometric magnitude, V band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
<Column>
<Name>mag_v_auto</Name>
<Description>Photometric magnitude in V band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_V</UCD>
</Column>
```

Registering a new Resource (5)

```
<Column>
<Name>mag_v_auto_err</Name>
<Description>Uncertainty in photometric magnitude, V band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
<Column>
<Name>mag_i_iso</Name>
<Description>Photometric magnitude in I band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_Z</UCD>
</Column>
<Column>
<Name>mag_i_iso_err</Name>
<Description>Uncertainty in photometric magnitude, I band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
<Column>
<Name>mag_i_auto</Name>
<Description>Photometric magnitude in I band</Description>
<Unit>mag</Unit>
<UCD>PHOT_MAG_Z</UCD>
</Column>
<Column>
<Name>mag_i_auto_err</Name>
<Description>Uncertainty in photometric magnitude, I band</Description>
<Unit>mag</Unit>
<UCD>ERROR</UCD>
</Column>
</Table>
</vr:Resource>
</AstrogridResource>
```