

Data Access Layer
Working Group



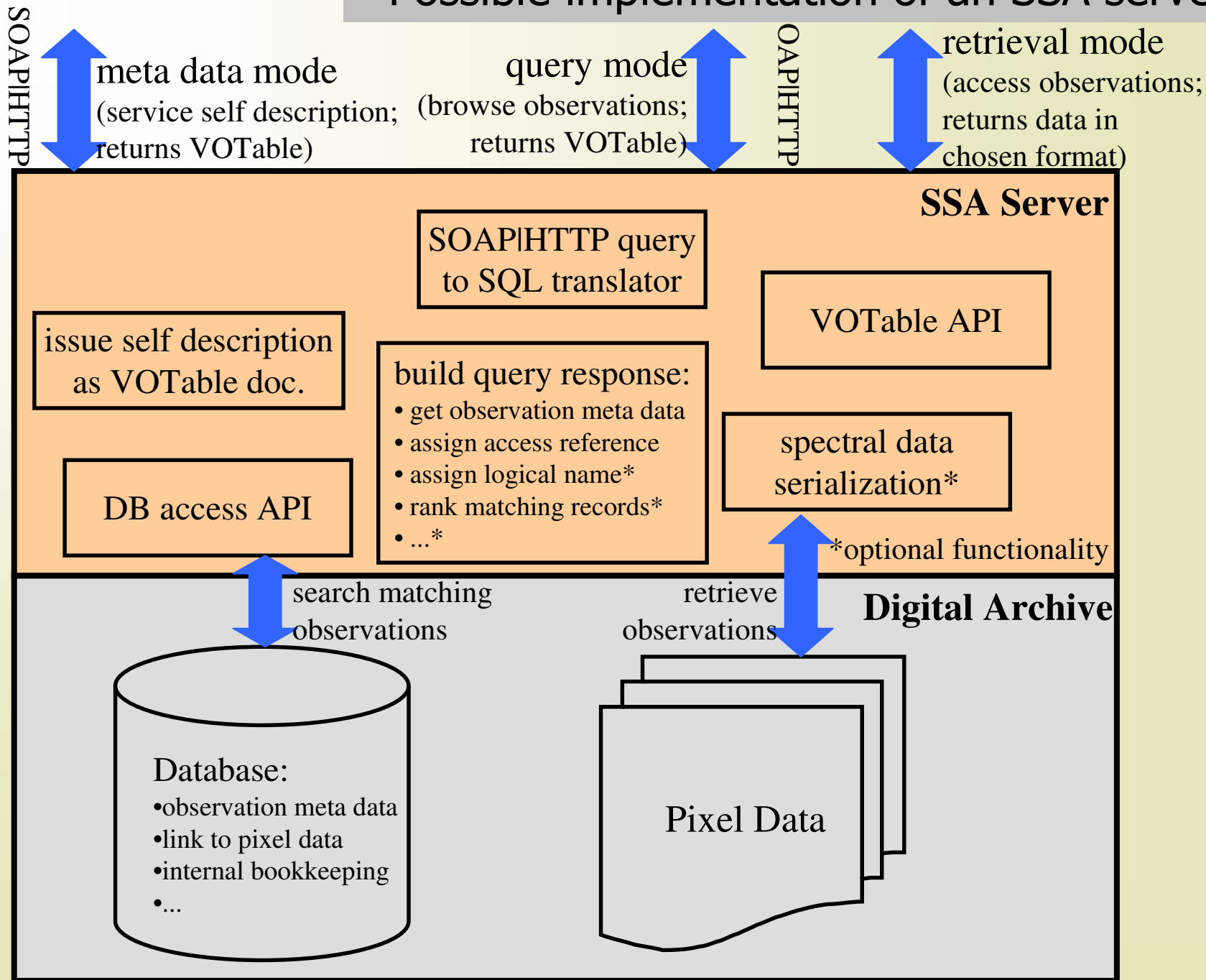
SSA Query Interface

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Possible implementation of an SSA server



Query Parameters

Feedback in Boston (May):

- Resolution: min. spectral resolution
- Format: application/x-votable+xml
- Score: relative ranking within result set

Suggestion:

- utype: request data model object
(which gets translated into list of utypes)
- ucd: request list of ucd result columns

Mapping Data Models to VOTable Groups

```
<GROUP utype="sed:Curation">
```

```
  <PARAM utype="sed:Curation.Publisher" ucd="meta.note" value="SAO" />
```

```
  <PARAM utype="sed:Curation.PubID" ucd="meta.id" value="ivoa://cfa.harvard.edu" />
```

```
  <PARAM utype="sed:Curation.Logo" ucd="meta.note" value="http://cfa.harvard.edu/cfalogo.jpg" />
```

```
  <PARAM utype="sed:Curation.Version" ucd="meta.note" value="1.0" />
```

```
  <PARAM utype="sed:Curation.Contributor" ucd="meta.note" value="McDowell Dolensky" />
```

```
  <GROUP utype="sed:Contact">
```

```
    <PARAM utype="sed:Curation.Contact.Name" ucd="meta.note" value="McDowell Dolensky" />
```

```
    <PARAM utype="sed:Curation.Contact.Email" ucd="meta.note" value="ab@cd.ef" />
```

```
  </GROUP>
```

```
</GROUP>
```

Mapping Data Models to VOTable Groups II

```
<GROUP utype="sed:Curation">
```

```
  <FIELDref ref= "field1" />
```

```
  <FIELDref ref= "field2" />
```

```
  <FIELDref ref= "field3" />
```

```
  <PARAM utype="sed:Curation.Version" ucd="meta.note" value="1.0" />
```

```
</GROUP>
```

```
<FIELD name="Flux Value" datatype="float" ID="field1"
```

```
  utype="sed:Flux.Value" ucd="phot.fluxDens;em.wl"
```

```
  unit="erg cm-2 s-1 Angstrom-1" />
```

```
<FIELD name="Negative Error" datatype="float" ID="field2"
```

```
  utype="sed:Flux.Accuracy.StatErrorLow" ucd="stat.error;phot.fluxDens;em.wl"
```

```
  unit="erg cm-2 s-1 Angstrom-1" />
```

```
<FIELD name="Positive Error" datatype="float" ID="field3"
```

```
  utype="sed:Flux.Accuracy.StatErrorHigh" ucd="stat.error;phot.fluxDens;em.wl"
```

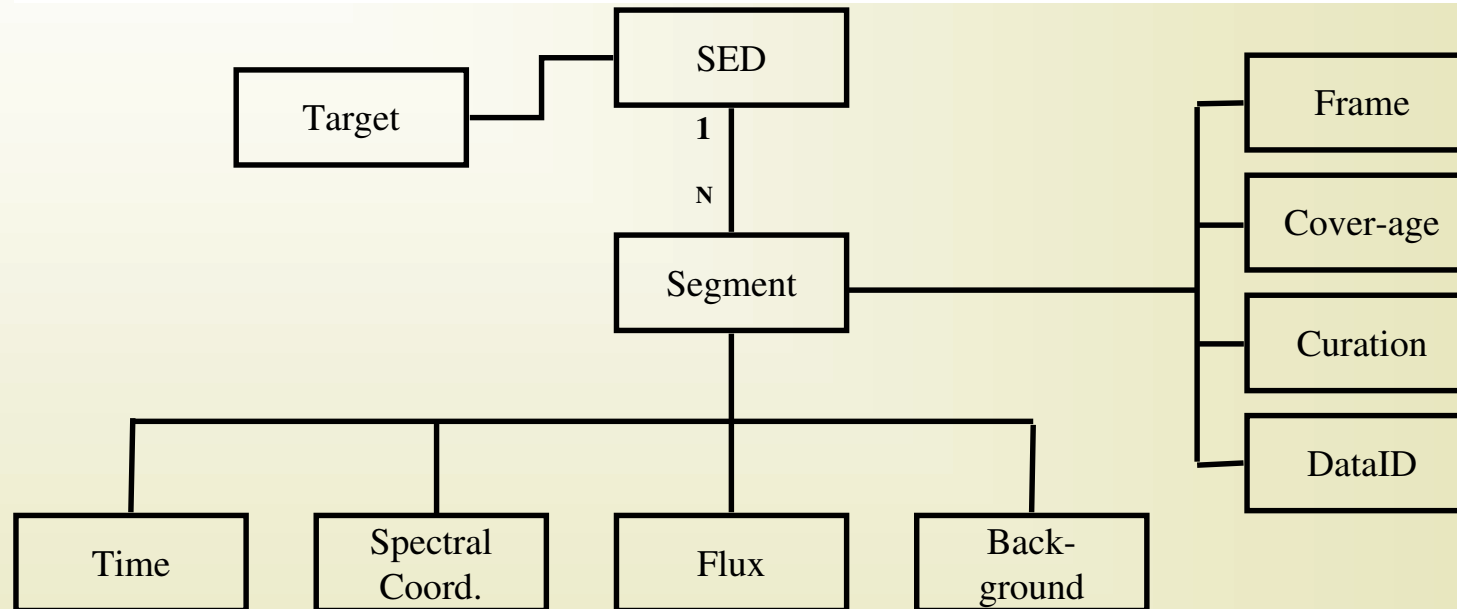
```
  unit="erg cm-2 s-1 Angstrom-1" />
```

SSA Serialization: An Experiment with VOTable V1.1 ...

<http://www.ivoa.net/internal/IVOA/IvoaDAL/ssample1.xml>

Data Model vs. Query Response (Discussion)

Should segment specific info be part of query response?



Simplified data model describing the structure of spectrophotometric datasets with spectral and temporal coordinates and associated metadata. It was developed by the data model working group of IVOA by McDowell et al.