

International VIRTUAL OBSERVATORY

Data Access Layer Working Group

SSA Overview and Status

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SSA Elements

- **Query Interface**

- Similar to SIA

- do a query (e.g., GET, WS; ADQL eventually)
 - get back a VOTable

- Query Response VOTable

- describes available datasets
 - metadata is direct mapping of SSA data model
 - data described may be "atlas" (precomputed) or virtual
 - access reference URL points to the data

SSA Elements

- **Data Access**
 - Use URL to fetch data
 - data is generally computed on-the-fly
 - Data representation
 - VOTable, FITS, native XML, text; pass-through
 - same data object (DM) regardless of format

SSA Elements

- **SSA Data Model**
 - Encompasses spectrophotometric data
 - spectra, time series, SEDs
 - Common model for all these cases
 - Query interface, dataset representations are all DM-based

SSA Specification Activities

- **SSA Data Model**

- Working draft advanced to V0.9 following May meeting
 - focus on data representation, XML schema
 - using SSA use-cases (test datasets) to refine model
- Most issues at this point are more with specification document than with SSA DM
 - will be discussed in smaller group
 - characterization DM is important to SSA (and SIA)

SSA Specification Activities

- **SSA Data Representation**
 - Have proposal(s) for FITS, VOTable, native XML
 - data interchange tests are in progress
 - Serialization of SSA DM (JCM)
- **SSA Query**
 - Query parameters discussed already in May
 - Query response table and SSA DM (M.Dolensky)
- **SSA Analysis Use-Case**
 - VOSpec and handling of flux conversions in DM (P.Osuna)