



# SODA, Proposed recommendation

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# Situation after Sydney

- ▶ DALI and VOSI definitions
- ▶ sync and async
- ▶ Basic Interface for Simple cutouts:
  - one parameter per axis (consistent with SIAV2: subset of params)
    - POS (with polymorphism)
    - BAND
    - TIME
    - POL
    - + ID = dataset identifier
- ▶ How to bound to DAL discovery metadata ? → DataLink technology
- ▶ Don't consider bounding to datasets discovered via HIPS, generic TAP tables or journals at the moment

# DataLink technology

- ▶ 2 mechanisms : Service descriptor and {links} resource
- ▶ Can be combined together and may appear in several ways in the data discovery context
  - 1) SODA descriptor in discovery query response
  - 2) {links} resource descriptor in query response and SODA descriptor in {links} response
  - 3) {links} resource URL in acces-reference field of discovery Query response + SODA query descriptor
- ▶ How far Descriptor describes a standard service?

# Draft evolution

## After Sydney December draft :

- Included description of 3 factor semantics parameter description via VOTABLE PARAM attributes name, ucd, unit
- Let implicit freedom for
  - bounding mechanism
  - parameter description
- Assumed that
  - client operating both discovery and SODA gets all necessary information available from discovery metadata

# Situation of the PR after long and active discussion (last week)

- ▶ Implementation introduction has been added
  - explains when and how one use one of the three bounding technics
- ▶ SODA autodescription has been postponed to version 1.1
- ▶ Parameter description is provided or not
  - according to implementation context.

# Discussion points

- ▶ OPTIONAL Parameters and parameter domains in the descriptor
- ▶ Add numerical parameters
- CIRC, POLY, RA+DEC to the syntax
  - No more consistency with SIAV2 syntax
  - If we change SODA syntax do we change SIAV2 immediately ?
- ▶ Is there a preferred bounding mechanism ?
  
- ▶ All this may have consequences for future versions of SODA
  - relationship to datamodel, virtual data discovery, new standard parameters
- ▶ Current PR is very open. All implementations should fit in