

# Radioastronomy data integration in the VO Landscape

## Implementation note.

### I) Introduction

- We should address there IVOA efforts to encompass radioastronomy specificities : already in the first decade of IVOA : Char/Observation datamodel, first version of SIA2. Then the multidimensional data CSP science priority : and the emergence of new protocols : ObsCore, SIA2, DataLink and SODA.
- We should give a table of existing radioastronomy VO services with protocol used : ALMA, LOFAR, ASKAP, ATCA, NRAO, CGPS, MERLIN, etc ....
- We should announce the content of the following parts. Organize the sections by category of data and type of services. It's probably possible to ask projects to provide us some « story-telling » of what they have done (and how they did it) and then reorganize this into logical lines : below an attempt

### II ) Science data

- Radio cubes
  - ObsTAP services
  - SIA2
  - DataLink
  - SODA
  - HiPS + MOC
  - Applications ?
  - Registration
- Radio 2D Images
  - ObsTAP services
  - SIA1 services
  - SIA2 services
  - SODA
  - DataLink
  - HiPS + MOC
  - Applications ?
  - Registration
- Spectra
  - SSA services
  - ObsTAP services
  - Applications
  - Registration
- Time Series
  - SSA services

- TAP services
- ObsTAP services
- TMOC, STMOC
- Applications
- Registration
- Source catalogues
  - SCS services
  - TAP services
  - MOC, TMOC, STMOC
  - Applications
  - Registration
- Rotation measure maps
  - ???
- Polarization data
  - ObstAP
  - SIA2
  - SODA
  - Applications
  - Registration

### III ) Raw data

- Raw visibilities
  - ObsTAP services
  - Provenance services
  - reduction Applications, WEB services, platforms
- Calibrated visibilities
  - ObsTAP services
  - Provenance services
  - reduction Applications, WEB services, platforms
- Single dish data
  - ????
  - Or is also to be included in first section ?
- Pulsar data
  - ????
  - probably also in first section ?