VO-Dance implementation experience

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for the INAF-OATs IA2 Team

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VO-Dance basics

- Resource publisher
  - DB to VO service translator
  - direct deployment of astrophysical datasets
- Managed protocols: SCS, SIAP, SSAP
- Uses: STIL, Astrotime
- Current status
  - V.0.9b (local svn repo)
  - ~20 services (+ some test)
  - http://ia2.oats.inaf.it/index.php/vodance
- Future
  - TAP
  - EPN extension (under discussion)

TAP test implementation

- VO-Dance independent TAP endpoint
  - aim
    - develop TAP services
    - check merging feasibility
  - based upon
    - openCADC Java libraries
- status
  - working endpoint with test data
    - taplint checked

Standard related issues

- different positional parameters
  - ↳ DALI addressed solution?
  - or DAL v2 solution
- UCD(s) heterogeneity
  - ↳ homogeneity requires protocol changes
- Utype discovery and definitions
  - SSAP angular size
  - ↳ Utype document

Implementation related issues

- complex positional queries (ADQL)
  - DBMS dependent
    - major issue with MySQL
- DBMS
  - openGIS DBMSs problems
  - quotation issues
  - tap_schema tables names
- SSAP (...not only)
  - range/list query input

Implementation related issues

- Tap development
  - good openCADC starting point
  - mainly configuration tasks
    - maybe some more documentation

- … cookbooks and guidelines

Conclusions

- SCS & SIAP
  - simple basic compliance
    - image cutout/merging not yet taken int account
- SSAP
  - range/list
- UCD, Utypes
- cookbooks and guidelines
  - to get along with workshops?

Thank you!