PLENARY CLOSING SESSION

2012 May 25

Theory Interest Group

Report

Two sessions:

- Tuesday: mainly discussions/brainstorming that help to review / re-examine / evaluate the SimDAL proposal, its TAP implementation, the various options for TAP_SCHEMA, etc.

- Wednesday: common DAL/Theory/Registry session that has clarified
  - the efforts to be made
  - the directions that have to be followed.

Main agreements

- SimDAL (Simulation Data Access Layer):
  - Need to use the column 'ucd' in TAP_SCHEMA in order to store SKOSconcepts
  - Unclear need/no need to have a hierarchical grouping of Parameters
  - Strong interest in Datalink
  - Unclear need/no need to define a SimDALRegExt
  - Need to define the mapping SimDM <> SimDAL Tables/Columns or rules to name columns
  - Need to make queries as "give me all the SimDAL services dealing with 3D radiative transfer of ISM" for discovering the proper services; this cannot be handle at Registry level.

- Vocabularies:
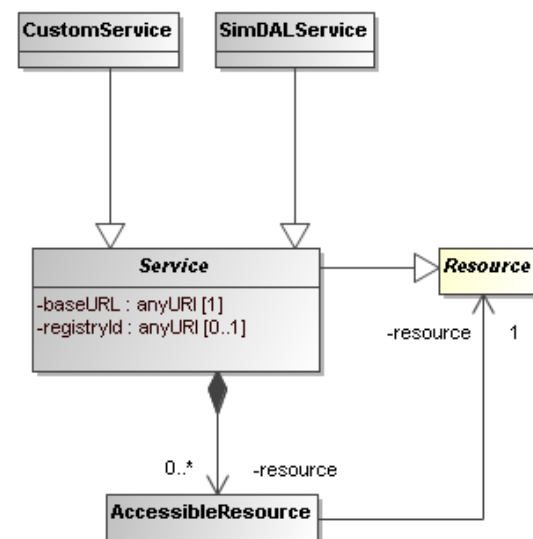 - Need to register VOcabularies in the Registry of references

Impacts on roadmap and other WGs

- ## Theory IG
  - <u>Need</u> for a DB 'service' containing very detailed informations on simulations (potentially full SimDM instances, TBC) $\Rightarrow$ **SimDB proposal** to be brought back to life
  - <u>Need</u> to make SimDB a standard
  - <u>Need</u> to describe the mapping SimDM <> SimDAL DM $\Rightarrow$ make explicit the Service class in SimDM $\Rightarrow$ SimDM 1.1

- ## Application WG
  - <u>Need</u> to allow for SKOSconcept syntax in VOTable (UCD field): " / "

Roadmap

SimDAL

- Led by: F. LePetit
- WD to be ready <u>by next interop</u>
- Test implementations to be modified during summer

SimDB

- Led by: G. Lemson
- WD to be started, date TBD
- (A note is already available since 2008)
- Current implementations have to be upgraded (all kind of simulations)

SimDM 1.1

- Lead by: G. Lemson
- Come up with SimDAL

SimDAL + SimDB

USERS

COMPUTERS

REC

InProgress

USER LAYER

Browser Based Apps

Desktop Apps

Script Based Apps

USING

R E G I S T R Y

VO Query Languages

STC   Utypes

VOUnits

UCD

Semantics

VO CORE

Data Models

Vocabularies

SimDB

Formats

VOTable

SimDM

SimDAL

D A T A   A C C E S S

P R O T O C O L S

SHARING

Data and Metadata Collection

Storage

RESOURCE LAYER

Computation

20120521
IVOA Architecture

PROVIDERS