

Plenary summary

Data Model WG Status report

Monday Nov 9

Data models serialisation : Utypes

Draft for an IVOA Note

- New version issued Nov, 6th

Utype: A data model name convention Version 0.4

<http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/Utypes>

- Canonical and **alternative** notation
- Tested on the **Characterisation Data Model Utypes list** and for the currently developed **Observation Core Components Data Model**
- Expected feedback and applications examples on data sets.

Datamodels building blocs : Units

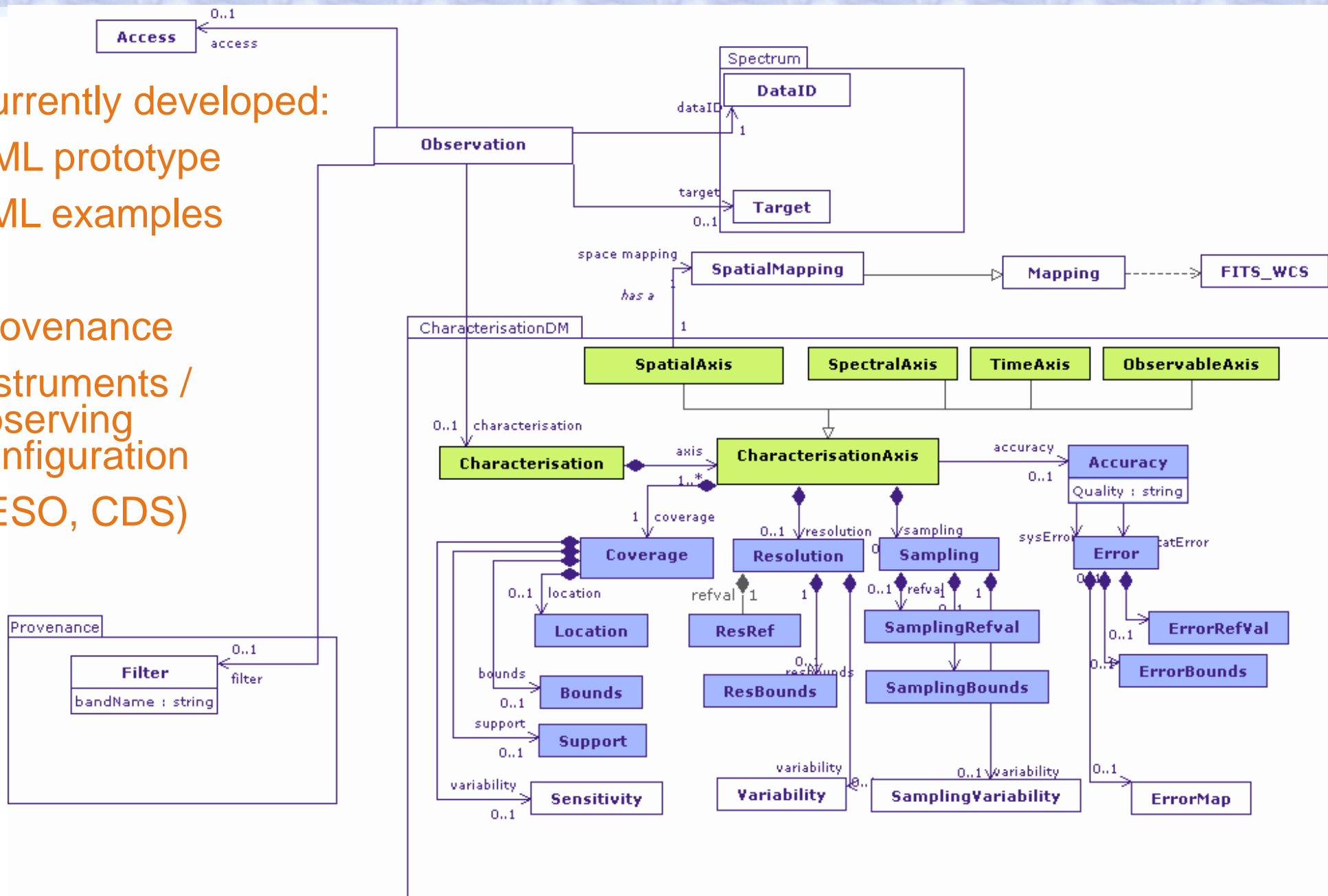
- IVOA WD issued in May at <http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/UnitsDesc>
- Agreed at Interop in May 09 at Strasbourg:
 - Follow **FITS paper** for the set of supported units
 - Include specific units and exclude ambiguous notations
- Currently defining grammars in BNF and developing a parser for units strings (Sébastien Derrière, Jeff Lusted)
 - G1 to check the largest set of admitted units
 - G2 parsing a more restrictive set considered as **IVOA recommended Unit strings**
- To perform tests on existing data collections
(Heasarc, Vizier, ESAC archive, ...)
- Check for compatibility with existing efforts

MEX FITS tool units list

Observation DM

Currently developed:
UML prototype
XML examples

Provenance
Instruments /
observing
configuration
(ESO, CDS)



Observation Core Components DM

From a set of use cases for data discovery (multi-wavelength, all data types)

- Define data model components
- Re-use Char DM v2.0 (only partly)
- Re-use Spectrum DM (only partly)
- Provide a list of items with:
 - Utypes and **shortname**
 - Units
 - Type
 - Description

Define new concepts:

observation calibration level,

Data content type (or **data product type**)

DM2
&
DAL 2

Simple Spectral Line DM

- RFC period ended
- In the last iteration for correction and answer to comments
- Implementations listed on the RFC page
- Aligned with SLAP protocol

Modeling Photometry

Photometry Data model (ESAC, SVO)

EuroVO AIDA

- A simple model: filter-magnitude description profile
 - Transmission curve
 - ZeroPoint
 - Reference object

SED FITS serialisation w.r.t Spectrum DM (CfA)

Science uses-cases needed

Complex observational data

- Part of the Full Observation DM
- **Polarisation** Axis prototyped
- Draft by Anita Richards
 - use-case summary
 - examples
- Radio data to consider
- Prototypes for complex observations
 - discussion started

CADC/ HST/ HEASARC/ XMM